**DATA INC.**

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**Surendra Parpudi**

**SUMMARY:**

* A professional with 16 years of experience covering broad spectrum of US Banking Industries.
* Possess sound experience in all facets of enterprise project lifecycle from initial feasibility study, conceptual design to implementation and production deployment.
* Expertise designing, developing and deploying applications using web-based technologies using C#, ASP.NET, MS SQL Server, Oracle.
* Established credentials complementing all phases of the Software Development Life Cycle supporting financial applications.

**SKILLS: Technologies:** ASP.NET MVC,ASP.NET 4.7, 4.6, 4.5.2, 4.0, 3.5, ASP.NET Core 2.2, ADO.NET, WCF, Web API, Web Services, AWS, Azure, XML, Entity Framework, LINQ, AngularJS, JQuery and AJAX. **Languages:** C#7.0, C#6.0, HTML, DHTML, and JavaScript. **Databases:** SQL Server 2016, 2012, Oracle, Sybase. **Utility Tools:** VS2019/2017, TFS, Rally, Jira, Bit Bucket, Jenkins, Artifactory, FireBug, Fiddler, Visio, MS Project, ILSpy, Splunk and AppDynamics.

**CLIENT EXPERIENCE:**

**Bank of America, Plano, TX** (Nov. 19 – till date) – **Data Inc.**
**Senior Software Engineer**

 **SBO 2000**

 SBO 2000 is a complete master servicing system, combining cashiering, data entry, accounting and investor reporting function in to one package. Application is being converted to .Net from Oracle Forms. Investor reports are generated by the End of Day (EOD) and Month End (ME) programs which runs as part of nightly cycle. These EOD and ME programs also generate files for downstream partners, remittance processing, master servicer file processing, compliance and risk analysis and for other systems within Bank. Line of Business users access the UI for on demand report generation, General Ledger reconciliation, Sales prediction and other analysis.

* Designed the architecture such that server count was reduced by 50% thus reducing the infrastructure cost significantly.
* Redesigned some of the key programs which drastically sped up the EOD process.
* Involved in DBAAS database and app server configuration decisions, server procurement and server setup of private cloud servers.
* On boarded the application to Horizon platform which is used for CI/CD process.
* Coordinated with downstream partners for smooth testing with no defects.

**Environment:** C# 6.0, ASP.NET 4.7, WCF Services, Dot Net Core 3.0, Web Api, Oracle 19c, SQL Server 2016, Windows Service, Batch Script, Visual Studio 2019, Bit Bucket, Jenkins, Artifactory, Windows Server 2019, IIS 10.

**PennyMac, Plano, TX** (Nov. 18 – Nov 19) – **Data Inc.**
**Senior Software Engineer**

 **Escrow Manager**

 Escrow Manager is a mortgage domain project and is part of Loan Servicing platform. It contains fleet of modules which are responsible for Escrow Analysis, Tax, Mortgage Insurance and Hazard Insurance. Escrow Analysis can be performed in Mass or on Individual Loans which calculates the monthly mortgage payments for the remainder of the year, the monthly mortgage payment would include the following Escrow Items - Principal and Interest amounts, Tax (City, County, School/ISD, Lien) amount, Hazard Insurance (Home Insurance) and Mortgage Insurance if any. These Escrow Items are then disbursed monthly/yearly to the appropriate payee depending on the disbursement frequency of the Escrow Item through third party service provider.

* Implemented Simulators which reduced the dependency on external systems and increased development efficiency.
* Analyzed and Implemented various business process improvements which were causing the systems to fail for high load volumes
* Analyzed and Optimized stored procedures which were causing repeated dead locks thus bringing down the whole application.
* Co-ordinated and smoothen the data sharing capabilities with third party service providers.

**Environment:** C# 6.0, ASP.NET MVC 5, ASP.NET Core 2.2, Angular 6, SQL Server 2016, AWS, Relic, JIRA, Visual Studio 2017, TFS, Windows Server 2012, IIS 8.5.

**Bank of America, Plano, TX** (Jun. 17 – Nov 18) – **Data Inc.**
**Lead Software Engineer**

 **Data eXchange (DataX)**

 DataX project is part of Bank’s Test Data Automation (TDA) initiative which is responsible for data availability, data quality, mining, reservation, conditioning, transaction generation, etc. The data which is made available is taken from production and sanitized to protect client privacy. DataX services the test data needs for all the LOBs within Bank which makes this application a one stop shop for all the test data requirements for standalone applications as well as integrated applications. Mining and reservations capabilities are available through web api services as well which can be consumed through automated test scripts, thus helping Continuous Integration / Continuous Delivery (CI/CD) efforts.

* Designed and implemented Data Import tool in C# which is used to import data from various data sources thus reducing significant licensing cost of previously used DataStage tool.
* Designed licensing model and implemented license validation mechanism for various tools.
* Analyzed flaws in the existing deployment process and designed new efficient processes for smoother deployments.
* Followed Agile Scrum methodology with Daily Standup calls, Sprint planning, Iteration demos and retrospective meetings.

**Environment:** C# 6.0, ASP.NET 4.5, Web API 2.0, Angular 1.6 & 6.0, SQL Server 2014, Windows Service, Visual Studio 2017, TFS, Windows Server 2012, IIS 8.5.

**Broadridge Financial Solutions, jersey City, NJ** (Feb. 17 – May 17) – **Data Inc.**
**Senior Software Engineer**

 **ACATS**

 The Automated Customer Account Transfer Service (ACATS) is a system that automates and standardizes procedures for the transfer of assets in a customer account from one brokerage firm and/or bank to another.

This system enables eligible participants to efficiently and automatically enter, review, and settle the transfer of customer accounts between each other. The service standardizes transfer procedures, reduces operating costs, and speeds transaction settlements. ACATS enables the transfers of many different types of assets, including, but not limited to, equities, corporate and municipal bonds, unit investment trusts, mutual funds, options, annuities, and cash.

* Designed document management system which can generate pdfs based on client requirements.
* Designed SSIS packages to load flat files from different systems in database.
* Implemented Simulators which reduced the dependency on external systems and increased development efficiency.
* Followed Agile Scrum methodology.
* Designed and implemented data parsers which would process raw data received from various systems.

**Environment:** C# 4.0, ASP.NET 4.0, SQL Server 2012, SSIS, Windows Service, Visual Studio 2013, TFS, Windows Server 2012, IIS 8.5.

**Bank of America, Pennington, NJ** (Jan. 16 – Feb 17) – **Data Inc.**
**Lead Software Engineer**

 **Aggregator**

 The product is used to capture anomalous user activities particularly for applications exposing confidential data. Applications log all user activities (access & transactional), as referenced in the GIS (Global Information Security) standards, applies to internal users accessing application data. Aggregator collects the user activity logs from all the applications installed on a server and sends it to NAS through an endpoint for further processing and eventually populating in database. GIS team creates various reports for monitoring responses and forensics. This Aggregator Windows Service is used by applications across all LOBs within the bank.

* Redesigned the DB structure to speed up the UI response time for reports.
* Designed the solution to implement the product in DMZ.
* Designed various tools which reduced the manual intervention and helped to increase the productivity.
* Followed Agile Scrum methodology.
* Monitored application health using various tools like Splunk, AppDynamics.

**Environment:** C# 4.0, ASP.NET 4.0, SQL Server 2012, Windows Service, Visual Studio 2013, TFS, Windows Server 2012, IIS 8.5, WXS, Splunk, AppDynamics.

**Instrumentation Console**

The events that are logged using the Aggregator can be verified using the Instrumentation Console. The events can be filtered by Date Range, Server Name, Application Name, Application Id (AIT) or Event Type (Compliance, Business or Diagnostic). The console features various kinds of Aggregator health reports like Deployment Report (showing when was Aggregator installed or uninstalled), Ping Report (showing whether Aggregator is running or not), Error Report (showing was there any error while receiving or sending the events) and File Validator (checks the event file for errors/warnings).

* Optimized SQL Stored Procedures to fetch data page wise thus reducing application response time.
* Redesigned the application using SOA so that multiple applications can fetch data from the same database.
* Improved user experience by implementing client side scripting using AngularJS
* Designed various software solutions driving continuous improvement to processes and work flow.

**Environment:** C# 4.0, ASP.NET 4.0, SQL Server 2012, Angular JS, Web API, Telerik Controls,Visual Studio 2013, TFS, Windows Server 2012, IIS 8.5, WXS, Splunk, App Dynamics.

**Bank of America, Pennington, NJ** (May. 13 – Dec 15) – **Data Inc.**
**Senior Developer**

**Trade Recon**

The Trade Recon application allows the user to compare trades generated in Portfolio Management for Managed Accounts. Once the trade order is placed, it flows through a series of events before finally placing the order in the market. If there is any discrepancy of data in this series of events, then this discrepancy is displayed in the application so that the user after reviewing the details can address them by clearing the breaks. The recon process should be complete before the Financial Advisors (FA) begin trading for the day so that client accounts reflect accurate positions and amounts.

* Designed and implemented various modules using ASP.NET, Angular and Web API.
* Created various Proof of Concepts (POC) which helped the client to take appropriate business decisions.
* Implemented various batch processes which ensured the data is in sync across various databases (DB2, Oracle and Sybase)
* Coordinated with various teams for seamless integration across various environments.

**Environment:** ASP.NET, C#, Angular JS, Web API, DB2, Oracle, Sybase, Visual Studio 2010, XML, XSD, TFS, Windows Server 2008 R2, IIS 7.0

 **iSaMM**

 The project allows a Financial Advisor (FA) to create and maintain different types of Mutual Fund Strategies and Models. It also allows the FA to add individual sleeves into Strategies and Models and allocate the sleeve contribution as per the investment approach (Conservative, Moderately Conservative, Aggressive, etc). The application provides other features like index lookup, assigning Gaining Strategy and Losing Strategy.

* Designed and implemented various modules using ASP.NET MVC 3, JQuery and WCF Service.
* Designed various tools which reduced the manual intervention and helped to increase the productivity.
* Created High Level and Low Level Design documents and gave detailed presentations to different teams using the application.
* Interacted with DB2, Oracle, Sybase databases to fetch the data

**Environment:** ASP.NET MVC 3, C#, JQuery, WCF Services, DB2, Oracle, Sybase, Telerik Controls, Visual Studio 2010, XML, XSD, TFS, Windows Server 2008 R2, IIS 7.0

**Bank of America, Pennington, NJ** (Jan. 11 – Dec 12) - **TCS**
**Order Status**

The project provides user interface (UI) to display status of the orders placed during market trading hours. The orders placed can be of different security types like Equities, Derivatives, Mutual Funds etc. Each security type has different set of rules to be evaluated before displaying it to user. The application supports security bidding process and also different types of actions like Cancel Order, Extend Order, etc. The project supports both mobile version and full site version. Mobile version supports limited operations.

* **Implemented the application using Merrill Lynch’s custom frameworks like MLIF, MLPF, Content Management, Navigation System, etc.**
* Designed the application using MVC pattern, Object Oriented Design and Service Oriented Architecture.
* Developed custom tool to test web service responses of various environments and suggest the user which environment’s service path to be used for testing.
* Designed web forms to exchange data from web server using AJAX, JSON and JavaScript for better user experience.
* Implemented the application using Test Driven Development approach.
* Co-ordinated with various teams for smooth integration of interfacing systems.

**Environment:** ASP.NET 4.0, C#, AJAX, WCF Services, JavaScript, JSON, Visual Studio 2010, XML, HTML, DHTML, TFS, Windows Server 2008 R2, IIS 7.0

**Online Account Opening**

The project deals with online account opening process. The application supports different types of accounts like Cash Management account, Investment Retirement account, College Investing Plan, etc. Accounts can be opened using Authenticated or Unauthenticated mode. The account opening process caters to the laws of United States as well as individual state laws.

* **Implemented the application using Merrill Lynch’s custom frameworks like MLIF, MLPF, Content Management, Navigation System, etc.**
* Created highly responsive front end UI pages using ASP.NET, C#, AJAX, JSON, JavaScript, HTML and DHTML.
* Consumed WCF Services from client side using JavaScript, AJAX and JSON.
* Designed data structures and generic converters for data exchange between application and WCF Services.
* Earned laurels for identifying and suggesting various design changes which contributed to speed up application’s response time.
* Created High Level and Low Level Design documents and gave detailed presentations to the client.

**Environment:** ASP.NET 4.0, C#, AJAX, WCF Services, FireBug, JavaScript, JSON, Visual Studio 2010, XML, HTML, DHTML, TFS, Windows Server 2008 R2, IIS 7.0

**BNP Paribas, Japan** (Aug. 10 – Oct. 10) – **Synechron Technologies**

**Senior Developer**

**BNPP BO Migration**

The project schedules the reports developed in Business Objects (BO). The webi report template is extracted from the server and exported to either pdf or excel format depending on the configuration set for the report while scheduling. The exported files are password protected. After exporting, the report is mailed to respective recipients set while scheduling.

* Analyzed the requirements and designed the data structures to be used by the application.
* Designed custom provider to interact with Business Object reports.
* Led the efforts to secure the exported files by password protection using MS Office extensions for .NET.
* Client interaction on daily basis for requirement gathering, status reporting and project planning
* Deployed the application on Windows Server 2003 and IIS 6

**Environment:** ASP.NET 3.5, Business Objects, MS Office Extensions, Visual Studio 2008, TFS, Windows Server 2003, IIS 6.0, SQL Server 2005

**Asurion Inc., Nashville, TN** (Dec. 08 – Dec. 09) – **Synechron Technologies**

**Developer**

**Asurion IVR-VSS**

Asurion customers can call the toll-free number to perform a variety of claim related tasks over the telephone like filing a claim, making payments etc. IVR-VSS application works as a bridge between the Cisco Voice Platform and Claim data. The application implements the interfaces specified by the Cisco Voice Platform. Cisco Voice Platform then calls these interfaces for creating claims, accepting payments from customer, checking the status of the claims etc. IVR-VSS is also called to generate different menu options for customers based on their claim status, payment status, etc.

* Responded quickly and efficiently to high priority issues on QA and Production servers.
* Assisted in the performance optimization of the application by utilizing code profiling techniques and database performance tuning to limit the response time to 3 seconds.
* Implemented Windows Service to monitor application performance and generate report on daily basis using C#.
* Implemented Web Services to fetch data from back end databases using C# and ADO.NET.
* Involved in development with SCRUM methodology for iterative task completion by having daily stand-up meetings.

**Environment:** ASP.NET 2.0, SQL Server 2005, Web Services, Windows Services, SSIS, TFS, Windows Server 2003, IIS 6.0

**Wachovia Bank, Charlotte, NC** (Aug. 08 – Dec. 08) – **Synechron Technologies**

**Developer**

**Business Services Integration (BSI)**

The project involves providing custom security to SSRS (SQL Server Reporting Services). The project is part of very big project where multiple applications communicate with each other. These multiple applications authenticate the credentials provided by SAML, thus providing single sign on for the whole application. This project provides role based single sign on for SSRS.

* Created various Proof of Concepts (POCs) to help the client decide appropriate design approach.
* Created HTTP module layer on report server to authenticate all users trying to access the reports.
* Created complex stored procedures, views, functions and triggers in SQL Server including gathering data from other databases on the server.
* Apart from development efforts, documented the whole architecture of the application.
* Deployed the application on IIS and Apache web servers.

**Environment:** ASP.NET 2.0, SQL Server 2005, SSRS, Web Services, TFS, Windows Server 2003, IIS 6.0

**Credit Suisse Bank, Princeton, NJ** (Aug. 07 – Aug. 08) – **Synechron Technologies**

**Developer**

**Wholesale (WHS)**

The project involves the re-engineering of the existing application with business process improvements. The application is used to acquire closed loans from the primary market. The application performs Registration, Pricing, Underwriting, Due Diligence, Closing and Funding for the loan. The project involves conversion of ASP code to ASP.NET 2.0 with business process enhancements and quicker response time.

* Created custom ASP.NET data grid control to display data in customized format and to allow client side filtering of records.
* Created stored procedures, functions and triggers in Oracle.
* Created custom Installers(MSI builds) for QA and production releases
* Involved in analysis and design of new features/modules using ASP.NET, C#, Javascript and AJAX.
* Migrated the code from classic ASP to ASP.NET 2.0

 **Environment:** ASP.NET 2.0, SQL Server 2005, Oracle, AJAX, JavaScript, TFS, Windows Server 2003, IIS 6.0

**Impac Funding, Irvine, CA** (Nov. 06 – Aug. 07) – **Synechron Technologies**

**Developer**

**iWIL**

The project pulls in the loans from their affiliate and non-affiliate partners after loan origination and primary market closing, till the point where the investor purchases the loans. The project involves re-engineering of VB application to C#.NET 2.0 with business process improvements so that it is easier to use, incurs lower maintenance costs and increases the level of user processing, reducing the dependence on IT staff. The project is designed with SOA architecture. The application was built using custom controls with some extra features embedded like rich UI, security. The project also enhanced the ability to view and generate reports by sales and finance department. The response time was reduced by 55%.

* Created C# winforms custom controls with enhanced role based security
* Designed rich MDI based UI with C#.NET
* Analyzed and suggested various process improvements to the client which led to lower the response time significantly.
* Created complex and responsive stored procedures, views, functions and triggers in SQL Server
* Implemented the application using .NET Multithreading features.

 **Environment:** C#.NET 2.0, SQL Server 2005, VSS

 **Scientia, Oxford, UK** (Mar. 06 – Nov. 06) - **Rave Technologies**

 **Developer**

 **Reference Data Maintenance**

Reference Data Maintenance is a part of a large educational domain project. The application is used for scheduling and timetabling the activities and resources in the university. The user is allowed to carry out actions if he/she has appropriate permissions. The application supports Single Sign On, which doesn’t require login if he/she is accessing the application from the main portal page. The application uses AJAX to populate the controls faster.

* Created complex ASP.NET custom controls to enhance user interaction with the application.
* Created complex SSRS reports for business users.
* Involved in designing web pages using ASP.NET custom controls, CSS, AJAX, JavaScript, HTML and DHTML.
* Implemented Service Oriented Architecture to gather data from different data sources.
* Participated in peer code review.

 **Environment:** ASP.NET 2.0, Web Services, SSRS, AJAX, JavaScript, CSS, VSS, Windows XP, IIS 6.0

**Eros Entertainment, India** (Oct. 05 – Mar. 06) - **Rave Technologies**

**Developer**

**Performance Management System**

This is an entertainment domain project. The application is used to manage film rights from around the globe. Film rights are categorized as Theatrical rights, TV rights, etc. Rights are distributed for each territory. The application has different modules like Rights Management, Reports Management, and Admin. The different types of rights and territories are set in the admin module.

* Created DTS packages to migrate data from different data sources.
* Created High Level Design documents.
* Created ASP.NET user controls for common functionalities.
* Involved in gathering requirements from the client.
* Created Installers (MSI builds) for server deployment.
* Designed web pages using standard ASP.NET controls and CSS.

 **Environment:** ASP.NET 1.1, SQL Server 2000, Visio, VSS, Windows XP, IIS 6.0

**EDUCATION:** Bachelor of Engineering (Electronics)

**CERTIFICATIONS:**

* Microsoft Certified Professional in Web Applications (70-564)
* Microsoft Certified Professional in Application Development Foundation (70-536)
* NCFM : Financial Markets, Beginner’s Module