

Mayank Goyal

Software Engineer

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Tech generalist with hands-on experience in multiple programming languages, technologies, and in digital marketing. Skilled at understanding and bridging the divide between technology, business, and users.

Tech Skills

Languages: Java 8 | C# | JavaScript ES6 | TypeScript | HTML5 | CSS

Libraries: Spring Boot | React | Redux | Angular | NgRx | Apache POI | Quartz | Swagger | Plotly.JS | Mockito | Spring Aspect

Others: Git | TFS | Linux | **Microservices** | Docker | **Kubernetes** | Adobe XD | Maven | Mongo DB | Couchbase | **NoSQL** | **SQL** | REST APIs

Work Experience

Software Developer, Advanced, Amdocs

Nov, 2018 - Present

Project: Bell Canada

Feb, 2019 - Present

Project Description: Designed and developed several custom **Microservice projects** for the client, using **Spring Boot Microservices** on the **OpenShift** platform with **Couchbase Database** (OpenShift is a hybrid cloud platform, enabling deployment of **docker** containerized applications managed by **Kubernetes**). The microservices used **RESTful** architecture based on the **Swagger/OpenAPI** Specification, and were exposed over REST API endpoints. Jenkins is used for CI/CD pipelines, KeyCloak for API authentication via API Gateway (using Netflix Zuul), NFS, GlusterFS, and vSphere storage classes for persistent storage, and **React** for the **frontend**. Logging and monitoring is managed using **Kibana**, **Grafana**, and **Prometheus**, and source control using **Git** (BitBucket).

Highlights:

- Carried projects end-to-end - from requirement analysis, to development, to production support.
- Mentored several junior developers.
- Created a Microservices training plan for onboarding new developers, and conducted training for 20 colleagues.
- Led the adoption of GitFlow for microservices through the account for microservice projects.
- Met deadlines consistently while delivering code with zero bugs.
- Directly interacted and collaborated with the client to design solutions to solve business problems, involving other stakeholders as needed (Infra, IT, Planning etc).

Responsibilities and Contribution:

- Developed backend microservices and frontend UIs for several microservices projects.
- Developed critical functionalities for the first Microservices project for the account.
 - Created the helm charts for microservice deployment.
 - The helm charts were used for all future (15+) microservice in the account.
 - Automated database management as part of microservice deployment.
 - Wrote Kubernetes Cronjobs, automating daily report generation, data clean-up etc.
 - Automated POJO Generation from WSDLs and XSDs using Maven lifecycle hooks and Apache Axis, enabling communication with a third-party vendor's SOAP interface.

- Worked on requirement analysis, solution design, and effort estimation for several projects, delivering technical solutions for business problems.
- Designed wireframes in Adobe XD for a frontend project.

Project: AT&T

Nov, 2018 – Feb, 2019

Project Description: MDE (Mass Data Entry Platform) – an AT&T internal system built with Spring Boot for the backend and Angular 7 for the frontend, used by business users to create campaigns, and manage requests related to those campaigns.

Responsibilities and Contribution:

- Implemented login, logout and user management functionality.
- Implemented state-management using NgRx.

Technology Analyst, Infosys (Infosys Labs)

Dec, 2017 – Nov, 2018

Project: Infosys Cognitive Automation Platform (ICAP)

Dec, 2017 – Nov, 2018

Project Description: A cutting-edge automation product which can automate any activity performed on a computer by users. It includes features for image recognition, OCR, keyboard/mouse manipulation, headless browsing, interfaces for connecting with REST APIs etc. ICAP includes a desktop application for Workflow development, a central Angular dashboard for monitoring and management, and an Agent for remote workflow execution. It's developed using the .NET 4.5 framework on MVC architecture using Windows Workflow Foundation.

Highlights:

- Key member of Infosys R&D department, formerly Infosys Labs.
- Created a Licensing Utility and API which is used commonly across the entire unit for product licensing and validation. Technologies: C#, .NET4.5, .Net Core, MongoDB 3.6.
- Designed and developed the UI for a Counterfeit Product & Seller Identification platform on Angular 5, with interactive graphs created using Plotly.JS. Technologies: HTML5, CSS3, JavaScript ES 6, Angular 5, Plotly.JS, jQuery.

Responsibilities and Contribution:

- Suggested and implemented functionality for using Workflows inside other Workflows, enabling reusability of already-designed processes (such as updating an Excel file after every Workflow).
 - This helps prevents clients from having to make duplicate modifications in the case of process changes, saving time and employee hours.
- Built a Java wrapper for the old automation product (IAP, which is developed on Java, Spring, Hibernate, and Jython), providing compatibility with the new automation product.
 - De-compiled the exe and reverse engineered the product and business logic, in order to understand its process and created the wrapper which provided integration with the new product (developed on C# .NET, Angular 6, and Mongo DB).
- Designed functionality for ECR process (Extract, Classify, Resolve) in the software – an approach used to solve Enterprise Support Tickets automatically.

Senior System Engineer, Infosys

Mar, 2015 – Dec. 2017

Project: Global Customer Platform

Mar, 2015 – Dec. 2017

Project Description: Global Customer platform is the client's central database for all customer information - including purchases, transactions, current and historical customer data, customer

analytics data, and customer data provided by third parties. Consisted of data warehousing, ETL, and marketing applications.

Responsibilities and Contribution:

- Interacted with the client on a regular basis – the only fresher allowed to do so.
- Gathered marketing campaign requirements from client's business team and developed the campaigns in IBM Campaign/Unica.

System Engineer Trainee, Infosys

Nov, 2014 – Mar, 2015

Highlights:

- Completed training as a High Performer and ranked in the top 5% of the entire batch of 300.

Education

B. Tech (Computer Science and Engineering), Graphic Era University

2010-2014

Project: CryptApp Android Application

Project Description: Developed an Android Application for file encryption/decryption, and compression/decompression, using AES256-CBC cipher for file encryption and deflate algorithm for file compression.

Project: Data Services Requisition System

Project Description: Built a CRUD application in PHP and MySQL. Prior to the creation of this application, this activity was conducted through voice-conferencing and physical notes.

Project: NewsThatMattersNot.com

Project Description: Designed and created a new theme for NTMN website, learning Adobe Photoshop and creating graphics and the NTMN logo in the process.

I was retained as an Advisor for NTMN post internship; currently in NTMN Hall of Fame as Tech Consultant.

Entrepreneurial Experience

Internet Marketing

2011-2014

- Worked across the entire Digital Marketing Spectrum – SEO, SMM, PPC/PPM advertising, and Affiliate Marketing.
- Hired and managed an offshore team located in Philippines.
 - Managed a team of virtual assistants – creating documentation, training material, and managing their daily work.
- Created several profitable marketing campaigns in Facebook advertisements and Google AdWords.
- Marketed websites by utilizing On-Page SEO, Off-page SEO, and advertising campaigns.
- Ranked several self-created and client websites at the top of google search, driving organic targeted traffic and monetizing through Google AdSense and Affiliate Products.
- Performed Competition Research & Analysis for self and clients.