**UMA VEERAPPAN**

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**EXPERIENCE SUMMARY**

* 8+ years of hands-on experience in the field of Information Technology in Analyzing, Designing, Developing, Building and Releasing Business Applications.
* Strong design and hands-on experience in the DevOps domain with a special focus on CI/CD Pipelines.
* Practiced and coached Agile values, methodologies, and principles to teams.
* Quick to develop skills; love to learn and adopt new technologies to innovate for the greater good.

**REPERTOIRE**

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| --- | --- |
| CI\CD and configuration tools | Jenkins, Electric Commander, Docker, Ansible |
| Cloud | AWS – EC2, Lambda, Route 53, IAM Roles and Policies, EKS, Lambda, Certificate Manager (HTTPS protocol)  |
| Message Queue /Libraries/API  | Apache Active MQ, Rest API, Flask, PSL |
| Artifactory Management  | JFrog, Nexus |
| SCM | GIT, Perforce, Subversion, Clearcase |
| Database | Microsoft SQL Server, MySQL, NoSQL – Neo4j  |
| Process | Agile and Kanban |
| Collaboration & Management Tools | JIRA, Slack, Service Now |
| Programming & Scripting Languages | Core Java, C++ and Python |

**EDUCATION**

B.E. in Electrical and Electronics Engineering, Anna University, TN, India (2005 - 2009).

**WORK HISTORY**

Employed as Senior Build and Release Engineer @ Autodesk Inc, Singapore (Feb 2016 - to till date)

Employed as Senior Software Engineer @ Web Synergies. Deployed at client Crimson Logics, Singapore (March 2015 - Jan 2016)

Employed as Software Engineer @ Ness Technologies. Deployed at client PayPal, Singapore (May 2014 – March 2015).

Employed as Software Engineer @ Client Office Honeywell Technology Solutions, India (<http://www.honeywell.com/sites/htsl/> ) via Trigent Software (<http://www.trigent.com/>) - (March 2011 – Dec 2011).

Employed as Software Engineer @ eGrabber Incorporation, India (<http://www.egrabber.com/>) - (May 2009 – Oct 2010).

**PROJECT PROFILES**

**Engineering Operations - Autodesk (Feb 2017 -  Till Date) Role:  Senior Build and Release Engineer**

Currently, I am the SME of Publishing System a CD Service for desktop products. The service is business-critical for the CD process and I have been leading the team to migrate the existing infra to AWS environment with Ansible for configuring the slave machines that do the real work. We are moving away from a Perl client to the REST API ( Flask )service hosted in AWS. All of this being done while keeping the business wheels running. I work closely with several downstream teams in the US to include new features which come up as part of business requirement. I also collaborate and keep my customers (all desktop products ) updated on the new feature automation done to improve the service.

**Responsibilities:**

·       Migrate the existing service from an internal private cloud to AWS.

·       Design and develop Rest API along with authentication and authorization methods.

·       Monitor the performance of the machine and the services to ensure the reliability of the service.

·       Develop Ansible playbooks and containers to replace our existing powerful hardware machines and VM’s in a private cloud to AWS.

·       Involve in design discussions, propose and execute dynamic projects to set up Continuous Delivery for desktop products.

·       Publish a quarterly newsletter on the improvements and releases in Publishing System (CD Service).

·       Actively communicate and provide support to the customers through a common slack channel maintained by the team.

·       Conduct Luma sessions within the team to decide on the priority of projects.

·       As a PO and working member of the team, identify and lay the roadmap of the service for every quarter. Create epics, log use cases break them as user stories and work along with the scrum master and team members to ensure delivery of the goals.

·        Actively involved in hiring and mentoring juniors and interns.

**Tools/Languages Used:**Jenkins, GitHub, Python, Docker, AWS, Rest API, Perl, Ansible, Amazon EKS and OS (Unix/Linux and Windows).

**Engineering Operations - Autodesk (Feb 2016 - Feb 2017) Role: Build and Release Engineer**

As a Build and Release Engineer, I have set up multiple CI\CD pipelines from scratch for Desktop products like AutoCAD, Moldflow, etc. We support the build and release activities of products belonging to various market groups in China, Australia, and Singapore. I was responsible for migrating the products to a new tools stack like GitHub, Artifactory and Jenkins environment from Perforce and Electric Commander. Proven successful track record in driving, designing and implementation of CI/CD workflows, fully automated pipelines for large complex enterprise software and open sources with full compliance & security.

**Responsibilities:**

* Set up CI\CD pipelines for all desktop products.
* Collaborate extensively with internal customers to understand their pain points regarding the existing CI\CD process.
* Create Jenkinsfile and PSL plugins to set up a complete CI Pipeline.

**Tools/Languages Used:** Jenkins, GitHub, Python, Perl, and Artifactory.

**Monetary Authority Of Singapore - Crimson Logic (March 2015 - Jan 2016) Role: Senior Software Engineer**

MAS Core project is an initiative from the Monetary Authority of Singapore to support the Representative Notification Framework under the securities and Future Act (SFA) and the Financial Advisers Act (FAA). The system interfaces with external and internal systems like the Ministry of Home Affairs, CRO for screening purposes.

**Responsibilities:**

·       Gather requirements from MAS and prepare design documents.

·       Design and develop J2EE web applications that will use MVC Architecture (Struts 2).

·       Test and deploy at client site MAS. Target deploy environment is IBM Web sphere Application Server (WAS 8).

**Tools/Languages Used:**J2EE, Oracle 12C, UNIX, Struts 2 Framework, IBM Web sphere, SOAP  and ANT build tool.

**Global Credit Expansion - PayPal Compliance Policy (May 2014 – March 2015) Role: Developer**

Design, development, and maintenance of applications and mid-tier services for establishing regulatory compliance (KYC related) on end-users. I was part of the team that ported a legacy Checkout application to Java Restful service-oriented architecture. I was one of the active developers who contributed to PayPal's product release in 2014 called 'PayPal Credit’.

**Responsibilities:**

·       Design the entity model, data access layer, processor for the new stack and migrate efficiently to the new stack.

·       Design and implement incremental feature sets for every sprint in an agile environment.

·       Develop unit test cases for the implemented code and practice continuous integration strategy (Jenkins).

**Tools/Languages Used:**Java, log4j, Maven, RESTful API, Eclipse, TestNG, Power Mock, Jenkins fusion, UNIX Shell Scripting, Spring, GitHub, Rally, Selenium, Sonar, HP Fortify, Oracle, Apache Active MQ.

**A350 CPCS WP3 - Cabin Pressure Control System for A350 Airbus (Mar 2011 – Dec 2011) Role: Developer**

This project requires proficiency in design, development and white box testing of complex safety-critical airworthy Embedded (Avionics) Systems and applications.

 **Responsibilities:**

* Analyzing the requirements before design.
* Create a suitable algorithm and design using Rational Rose, which generates the skeleton code. Implement design to code.
* Ensuring the full coverage for the developed artifacts by using Code test & Vector Cover.

**Tools/Languages Used:** C++, Rational Rose, DO 178B Standard, Visual Slick Edit, RTOS, Super Tracer, Clear Case.

**Lead Grabber Pro - B2B List Building Software (Mar 2010 – Oct 2010) Role: Developer**

<http://www.egrabber.com/leadgrabberpro/>

Lead Grabber uses expert level Internet Research techniques to build fresh lists of contacts and companies. Given a keyword referring to an industry, it builds a list of all the companies and contacts in that industry. This executable has integrated many services working together each to carry out various processes like extracting the input page, contact information and displaying the extracted list. This module has been developed in a multi-threaded environment.

**Responsibilities:**

* Analyzing Product Business Requirements.
* Creating a detailed Algorithm and Modularization.
* Multithreading Architectural designs. Performance tuning.

**Tools/Languages Used:** C++, SQL and Search Engine Scripts, and SVN tortoise.

**AutoOpen - Automatically detects and extracts resume links (May 2009 – Feb 2010) Role: Developer**

<http://www.egrabber.com/resumegrabbersuite/plugins.html>

This plug-in automatically identifies the desired (job or resume) links in a given web page and extracts the contents. This plug-in has been designed in C++. Several heuristics algorithm has been incorporated. The algorithm of this technology has been designed in such a way that it solves 99% of different page layout cases.

**Responsibilities:**

* Creating a detailed Algorithm and Modularization.
* Collecting must parse samples with proper output database.
* Implement design to code using C++.

**Tools/Languages Used:** MFC , C++ ,Data Structures, SQL, Visual Studio 2008, SVN tortoise.