PASALA VISHNU TEJ MALLIKUPAM

19170 MONTE VISTA DR • SARATOGA CA 95070 • VISHNUTEJ9492@GMAIL.COM •347-420-4625

SUMMARY OF QUALIFICATIONS

A Master's graduate in Software Engineering with web application development work experience, specializing in the creation, implementation, and optimization of business-level software architecture.

➢ **Portfolio:** www.vishnutej.me
➢ **Programming:** Java, node.js, python, Django, PhantomJS, AngularJS, ReactJS, Z-Wave, Selenium, Django, Bootstrap, XPath, ansible, docker, MySQL, SQLite3, LaTeX, CSS, HTML5, Swing
➢ **Tools:** git, svn, vim, bash, UML, Jenkins, Eclipse, IntelliJ IDE, Rational Rose, ArcGIS, CodeCity
➢ **Development Project Management:** CMM, SDLC, Agile, SCRUM, JIRA, Confluence

EDUCATION

Master of Science (M.S.), Software Engineering – GPA: 3.20   **Graduated May 2016**
Rochester Institute of Technology   **Rochester, NY**

Bachelor of Engineering (B.Eng.), Computer Science   **Graduated May 2013**
Muffakham Jah College of Engineering and Technology   **Hyderabad, India**
   ▪ **GPA: 3.20**

WORK EXPERIENCE

Software Engineer   **July 2016 – Present**
NextAxiom Technology   **San Francisco, CA**
   ▪ Working on developing and enhancing the features present in their HyperService platform and studio product, which is a visual tool used to develop and integrate software components quickly especially in a large enterprises.
   ▪ This platform is used to create a virtualization layer on top of an organizations tech stack where business applications are written in various languages, but are made to function as a single application running within a virtual environment. This helps unlock development silos that can be formed by conforming to a specific stack and also helps maintain legacy code.
   ▪ Building custom JAVA plug-ins to adapt the requirements of the customer to the platform and complying with the core transformation concepts, while providing user interfaces built in AngularJS.
   ▪ Currently involved in the development of customized asset management and inventory solutions to government agencies specifically in the energy and nuclear industries.

DevOps Engineer Co-op   **May 2016 – July 2016**
One Convergence   **San Jose, CA**
   ▪ Involved in evolving the automatic deployment of their network service delivery solution that simplifies the deployment of OpenStack cloud and open source network services. The solution also helps with providing lifecycle service orchestration as well as scaling and network acceleration based improvements.
   ▪ Coded scripts in ansible and python that would automate a relatively long and drawn out process of a customized installation of OpenStack and various group based policies required to run the product across different network servers used to run virtual machines.

Software Engineer Co-op   **June 2015 – August 2015**
Measures for Justice   **Rochester, NY**
   ▪ Designed and implemented a framework that scraped court and criminal data across public records from 12 counties and ported it into an internal database as part of a three-member technical team for a non-profit organization dedicated to identifying racial and social factors in local legal systems.
   ▪ Wrote 12 scraping scripts and developed framework according to specific research team requirements in pair programming using CasperJS and node.js, as well as Selenium and JAVA.
   ▪ Developed and designed the REST API structure and front end requirements which allowed data to be pulled from the back end.
   ▪ Expanded the internal database 20% and saved hundreds of hours of manual data entry by automating data collection processes.
   ▪ Created instructional documentation and code commentary for every script detailing step-by-step usage explanation and rationale for potential logical loops.

Software Engineer Intern   **June 2013 – August 2013**
Memoir Systems Pvt Ltd   **Hyderabad, India**
- Developed and optimized the PERL-based architecture of a customer-facing memory compiler usage software as part of a 20-member team, improving product efficiency 15%.
- Implemented object-oriented approaches and JAVA-based functional coding practices to resolve PERL coding inefficiencies.
- Conducted configuration and regression testing on applications hosted in the local repository to identify performance issues and ensure code compliance in multiple environments.

Software Engineer Intern   **June 2012 – December 2012**
Tej Navitech Pvt Ltd   **Hyderabad, India**
- Redesigned and configured an internal web application to implement a modern overlay structure which increased data transfer speed 10% for a ten-staff GPS data storage and backup firm.

ACADEMIC/ INDEPENDENT PROJECTS

Toolshare Web Application   **August 2014 – December 2014**
- Led a team of five developing a Python and Django-based web application which allowed users to implement community work-tool sharing programs.
- Developed the application backend and wrote the user interface in Bootstrap and Foundation.

UpChef Web Application   **October 2014**
- Developed a business plan and working prototype (theupchef.com) for a food delivery web application as part of a three-member multidisciplinary team for a 48 hour shark tank meets hackathon competition.

Elections 2016 Poll Web Application   **June 2015 – May 2016**
- Created a web application that was to be partly developed by independent developers in a crowd-sourced environment to study the benefits and downfalls of crowd-sourced software development using node.js, express, jenkins, chartJS as part of my master's capstone project.

Java Game Development   **September 2013 – December 2013**
- Developed popular games to be run on the command line such as Battleship and Chain Reaction and also made them ready to play over the network using socket programming in Java.

Historical Thematic Population Mapping   **August 2015 – December 2015**
- Developed a thematic map in ArcGIS that was used to display the change in population by country of the world over a period of 5 years from 1950-2015 using a database which received data based on a script written in phantomJS and casperJS.

Home Automation System   **January 2013 – May 2013**
- Developed an extensive and comprehensive functional home automation system application which is used to send and receive signals to control various home devices over wireless networks using .NET, Luup and Z-Wave as part of my bachelor's final project.

Apache Hadoop YARN Architecture   **September 2014 – December 2014**
- Reverse Engineered the source code to obtain multiple architectural views and design models to analyze the components in detail using CodeCity and other UML tools.