Prakash Polavarapu

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Professional Experience:

Associate Software Engineer, Tekzenit Inc **June 2015 – June 2017**

- Designed payment gateway for e-commerce platform which reduced the **navigation time by 40%**.
- Developed **internationalization** for enterprise platform with support for multiple languages.
- Built **REST APIs** with existing Redis caching technology for various platforms.
- Experience working in a cross-functional **Agile** team; experience with test automation tools like selenium.
- Worked with continuous integration, build and deployment technologies like **Jenkins**.
- Technologies: **Java, Spring, C#, .Net, REST APIs, JavaScript, jQuery, MySQL, HTML5, CSS, Tomcat and Curl**

Software Development Intern, Tensilica Technologies **June 2014 - December 2014**

- **Automated** patch management system that updates the code base with latest libraries without the use of version control.
- Developed **functional components** of Xtensa Xplorer IDE that compiles with eclipse architecture.
- Ensured code quality standards using clean code development and achieved more than **90% code coverage** using JUnit.
- Technologies: **Java, Eclipse CDT, Java EE, JUnit**

Education:

University of Florida, Gainesville **Aug 2017 – May 2019**
Masters, Computer Science **GPA: 3.62**
Birla Institute of Technology and Science, India **Aug 2011 – May 2015**
Bachelors, Computer Science

Academic Projects

Compiler Design in Java: **Jan 2018 – April 2018**

- Designed and implemented compiler for custom LL-1 grammar which involves tokenizing, parsing, byte code generation (ASM Framework) and tested with 200+ test cases.

Peer to Peer File Sharing Application in Java: **Jan 2018 – March 2018**

- Implemented the choking-unchoking mechanism in peer to peer file sharing application using socket programming and multithreading.

Learning Application for Data Structures in JavaScript: **Jan 2019 – March 2019**

- Developed application using blockly and vis.js for learning hierarchical data structures for computer science students in human computer interaction course.
- Evaluated and measured the performance of the application using qualitative and quantitative analysis.

Twitter Sentiment Analysis in R: **Aug 2017 – Dec 2017**

- Designed an application that gather tweets containing keywords and classified them into categories using R and gephi.

B+ Tree in Java: **Jan 2018 – April 2018**

- Implemented a memory resident B+ tree which stores key-value pairs and support efficiency search and range retrieval.

Stock Market Analyzer in Java: **Aug 2018 – Dec 2018**

- Designed an application with RESTful APIs that analyzes the stock market data in database design course.

Diff Generator in Java: **Aug 2014 – Dec 2014**

- Developed application that generates the code difference and resolve conflicts between the source file and modified file which is used in the design of patch management.

Predictive Analysis on Datasets using MongoDB: **Aug 2018 – Dec 2018**

- Created visualizations for yelp dataset on different parameters and performed predictive analysis on them.

Technical skills:

- *Programming and Scripting* - Java (Proficient), Python, C#, JavaScript, C, R, Shell
- *Database Technologies* - MySQL, Oracle SQL, MongoDB
- *Relevant Coursework* - Analysis of Algorithms, Advanced Data Structures, Computer Networks, Database Management Systems, Programming Language Principles, Human Computer Interaction
- *Frameworks* - Spring, .Net
- *Others* - Pandas, REST, Agile, Linux, AWS, Jenkins, JSON, JUnit, Tomcat, GIT, SVN, TFS