Mahesh Gadge

Goal oriented, result driven, highly motivated full stack software engineer seeking a challenging position where my skill, knowledge and experience would be utilized to help achieve goals of your esteemed organization.

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WORK EXPERIENCE

Software Developer (R&D) for Unitrends   **Duration: August 14 to present**

Overview
- Working in an **agile development environment** with daily scrums and biweekly sprints.
- Being a part of Unitrends **UI/UX team** I worked on front end of Unitrends Enterprise Backup product.
- Developed user Interfaces using **HTML, CSS3** and **AngularJS** for various Unitrends enterprise products.
- Worked on building major **REST API's** for new generation UI using **PHP** and tested using **POSTMAN**.
- Was part of **3 major releases** and several patch releases and volunteered to work on major customer escalations, customer found defects and severe bugs.

May 16 to present
- **Lead UI developer** on integration of ReliableDR product in Unitrends enterprise backup product.
- Working closely with the upper management to design and **develop visualization and visual analytics** features for the application using **d3js, RaphaelJs**.
- Helping other developers where they are stuck, reviewing pull requests and maintaining UI and REST API code.

March 16 to May 16
- Worked on supporting SQL 2016, Exchange 2016 and SharePoint 2016 application backup and recovery in new UI.
- Worked on the REST api's to support **new Microsoft backup features** in enterprise product.

Feb 16 to March 16
- **Project Lead** for UI and REST api performance improvement project.
- Worked with super experienced developers to learn about **stress, load and performance testing**.
- Devised **performance heuristics** for product and probed areas of high importance which lacked in performance.
- Improved some of the poorly designed REST APIs to attain **90% performance gain** and improved UI to gain 20-30% performance.
- Received **accolades from CTO and VP of engineering** for accomplishing such an improvement in short time.

May 15 to Feb 16
- Worked on the new generation UI which was designed using HTML5, AngularJS and CSS.
- Implementing new features and resolving bugs for the product.
- Make over for the usage of Storage in product which forms the base of product. Learned a lot about networking, various file systems, protocols used and intricate working of various storages i.e. Physical : RAID, FC, iSCSI, NAS, SAN and **cloud: Amazon webservices, Google GCP/ Nearline** and **Rackspace Cloud** storage.
- Worked on 3 patch releases and small features.
- Fixed various issues in UI and REST api layer.

Aug 14 to May 15
- Development of REST APIs from scratch for new generation UI development.
- Worked closely with Chief Architect and Team Lead to **understand the product** and built various REST APIs.
- Built UI components in AngularJS, converted several UI components from JQuery to AngularJS and improved performance and User experience on various UI components, be it at REST layer or API layer.
- Fixed and Verified Bugs in the old UI and server scripts which were developed in Flex and PHP.

Software Engineer Intern for Hewlett Packard   **Duration: August 13 to November 13**
- Being part of Digital Marketing Hub product development team I worked on front end **Javascript Development** and **Unit Testing** using TDD methodology of development.
- Participated in Agile Software Development scrums with biweekly sprints.
- Worked on the Unit testing of JavaScript files using **QUnit**.
- Designed testing environment for functional testing of product using **Selenium Webdriver**.
- Verified Web services API request, response data validations in **REST API** calls using **SOAP UI**.
- **Removed dependencies** between different JavaScript files and deploying single minified version of JavaScript file on client side using **Grunt**.

EDUCATION

University of Illinois at Chicago (UIC)
- *Master of Computer Science*   May 2014

University of Pune (UoP)
- *Bachelor of Computer Engineering*   May 2011

COMPUTER SKILLS

- **Programming Languages**: C, C++, Java, Javascript, PHP, SmallTalk .
- **Frameworks**: AngularJS, BackboneJS.
- **Web**: HTML, CSS, JSP, XML, JSON, AJAX, JQuery, Servlets, Node.js, Grunt.
- **Server Programming/Scripting:** PHP, JAVA, C/C++.
- **Database Tools**: MySQL, PostgreSQL, MS Access.
- **IDE**: Webstorm, Microsoft Visual Studio, Eclipse, Netbeans, Visualworks, Omnet++ Simulator
- **Versioning**: Git, Perforce.
- **Tools**: Selenium Webdriver, QUnit, Jira, SOAP UI, PostMan, Soot.

HOBBY PROJECTS

Building website for thermacol/Styrofoam art business for Family member   Duration: Current
- Working on basic code building hosted on github.io using Jekyll for local hosting before sending code to production.
- Learning ionic framework 2.0 based on AngularJS 2 for the same.

CURRICULAR PROJECTS

Shopping Portal and Banking Application using Java and PostgreSQL   Duration: Jan 14 to May 14
- Collaborating with a team of 6 to design and develop an application using Java and PostgreSQL Database.
- Designed the logical and physical model for the database of the application and developing the system.
- Developed the application following SDLC process with emphasis on various testing techniques and tools such as Selenium, DBUnit, JUnit.

The Truth verifier system using Java and SQL   Duration: Jan 13 to May 13
- Developed a truth verifier system in which user inputs a doubtful statement and we find out the optimal solution to the query submitted.
- We used Stanford CoreNLP framework for semantic analysis of doubtful statement and queried Bing search engine and got top 200 results which were ranked to best possible alternate unit.
- Other way was to determine the data type of the doubt unit accurately using a parser and Wikipedia Database.
- Improved the accuracy of results by 12.5%

Control and intra-procedural data-flow analysis using Soot   Duration: Feb 14 to Mar 14
- Generated five different Java programs using Rugrat/Code Generator starting with 500 LOC to 1million LOC
- Designed a program that computed and displayed def-use paths, simple and prime paths, and round-trip paths for every variable defined in program/function.
- Created JUnit tests to execute programs and used Codepro to measure test coverage.

Binary Search Trees, Heaps, Collections in C++ & Smalltalk   Duration: Aug 12 to Nov 12
- Implemented operations to insert data, remove it, switch two trees/heaps (Binary & Tertiary), perform deep copies.
- Performed set operations (union, intersection, set difference) on heaps & binary search trees.
- Implemented a Collection class in C++, which was similar to ArrayList of Java, or Vectors of C++.

2ACK Protocol in MANET using OMNET++   Duration: June 10 to May 11
- A project in Ad Hoc sensor Networks in which we Implemented DSR based 2-ACK routing protocol for detection of Routing Misbehavior.
- Implemented 2-ACK protocol in OMNET++ as LINUX based framework for result capturing & analysis.

RELEVANT COURSES

Algorithms, Object Oriented Programming, Software Engineering, Advanced Software Engineering, Product Design, Information Retrieval, Query Processing in Databases, Big Data Analytics, Computer System Security.

HONORS/ACTIVITIES

- Worked in a group to win best presentation award at Accenture-Data Warehousing in Pune.
- Completed amateur and industrial photography courses and special interest in wildlife and landscape photography.
- Taught Mathematics and Computer Usage to underprivileged children aged 8-12 yrs.