Skandh Pathak

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Education

College of Engineering Pune **May 2014**
Bachelor of technology in Electronics and Telecommunication Engineering (GPA 7.44/10)

Skills

Language(s) : Java, Javascript, HTML5, CSS3, MATLAB
Frameworks : Spring, Hibernate, Maven, Camel, JUnit, Mockito, jQuery, AngularJS, NodeJS, Ionic
Databases : MySQL, MongoDB
Tools : Elastic Search, Eclipse, Tomcat, Nginx

Work Experience

Software Engineer, Vuclip India Pvt Ltd. **December 2015 to Present**

- Developed a SAAS based Video-on-demand(VOD) platform using Spring, Hibernate and MySQL
- Cut time of development from 5 to 3 weeks by automating database configurations for new products
- Overhauled the UI to conform to Google's material design guidelines; compatible with over 8000 devices
- Designed and implemented safeguards against security vulnerabilities like XSS and CSRF
- Set up a real time log monitoring system using ElasticSearch, Logstash and Kibana

Freelance Developer, Metaiot Technologies **April 2015 to July 2015**

- Created an android app for a real time,cloud based automobile analytics solution
- Implemented the notifications module that triggered geofence based alerts using the Ionic framework

Systems Engineer, Infosys Ltd **July 2014 to Nov 2015**

- Among the top 1% in a batch of 700 in the 4 month Foundation Training Programme
- Worked on an ESB solution for a British Energy client. Developed key components to handle validation, standardization and routing of the data flowing through the ESB using Java and XSLT style sheets
- Implemented a POC to check feasibility of open source integration platforms instead of existing proprietary solutions like TIBCO to cut licensing costs

Certifications

- Oracle Java SE 6 Certified Professional (1Z0-851)
- Infosys Certified Java SE 6 Programmer (201a)
- Harvard ManageMentor - Strategy Execution

Projects

Beating Boggle
Uses Prefix trees and dynamic programming. Solved a 6 X 6 boggle board with a dictionary of over 500,000 words in under 4 seconds

Analysis Of Survival Probabilities Of Chess Pieces
Simulated and analyzed over 275,000 chess grand master games to calculate the average survival probability of various pieces. $O(n)$ time and space complexity

Recursion in chess
A study in the use of recursion and backtracking to solve problems like N-Queens and Knights tour

JSoup based web crawler
Multi threaded JSoup based scrapper that recursively crawls a given website. Uses MySQL to store the data and Hibernate for ORM

Low Cost Android based 3-D Dimensioning and Ranging System
3D dimensioning system based on stereo imaging, depth by disparity and 3D re-projection. Extensive use of object segmentation and edge detection algorithms. Winner of the S.V.C. Aiya Memorial Award.

Activities

- Blog about advanced data structures and algorithms with over 150,000 views since 2015
- Part of the publicity and sponsorship teams for college fest
- Member of the Robot Study Circle at College of Engineering Pune