

# SKANDH PATHAK

<https://skandhp.github.io>

[skandh.pathak@gmail.com](mailto:skandh.pathak@gmail.com)

Mobile: + 91 77099 82303

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## EDUCATION

### College of Engineering Pune

May 2014

Bachelor of Technology in Electronics & Telecommunication Engineering (CGPA : 7.44/10)

## MAJOR COURSES

Computer Programming, Entrepreneurship Development, Programming Methodology, Computer Networks, Image Processing, Broadband Communication, Speech Processing, Engineering Mathematics IV

## SKILLS

**Language(s)** : Java, C, C++, Javascript, HTML5, CSS3, MATLAB

**Frameworks/Libraries** : J2EE, Spring, Hibernate, Elastic Search, Camel, JUnit, Mockito, jQuery, Ionic, NodeJS, AngularJS, JMS, Redis, OpenCV

**Databases** : MySQL, MongoDB

## WORK EXPERIENCE

### Software Engineer, Vuclip India Pvt Ltd.

December 2015 to Present

Developed a SAAS based Video-on-demand platform using Spring, Hibernate and MySQL

- Cut time of development from 5 to 3 weeks by automating database configurations for new products
- Set up a real time log monitoring system using Elasticsearch, Logstash and Kibana
- 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

### Freelance Developer, Metait Technologies

April 2015 to July 2015

Created a hybrid mobile application using the Ionic framework for a cloud based automobile analytics solution

- Implemented the notifications module that triggered geofence based alerts

### Systems Engineer, Infosys Ltd

July 2014 to Nov 2015

Worked on a TIBCO ESB solution for a British Energy client

- Developed key components to handle validation, standardization and routing of the data flowing through the ESB using custom Java SDK and XSLT style sheets
- Extensively involved in business transaction monitoring using Software AG's webMethods Business Process Management Platform
- Implemented a POC to check feasibility of open source integration platforms instead of existing proprietary solutions 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** : 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 backtracking to solve problems like N-Queens and Knights tour

**Performance of Balanced Trees** : A study of the impact of the nature of data-sets on the performance of Balanced Trees

**Multi-Threaded Web Crawler** : Multi threaded JSoup based scrapper that recursively crawls a given website. Uses MySQL to store the data and Hibernate for ORM

**Android Based 3-D Dimensioning System** : Based on stereo imaging, depth by disparity and 3D re-projection. Extensive use of object segmentation and edge detection algorithms. Avg error < 2%

## HONORS AND AWARDS

- 'Top Performer' at Infosys Foundation Training Program for ranking among top 1% of 700 engineers
- S.V.C. Aiya Memorial Award for best final year project at College of Engineering Pune

## EXTRACURRICULAR ACTIVITIES

- Blog about advanced data structures and algorithms with over 150,000 views since 2015
- Regular contributor at tuturself.com, a collaborative learning platform for Java and related technologies
- Helped collect Rs.3 million+ as part of the sponsorship team for college's technical festival 'MindSpark'
- Member of the Robot Study Circle at College of Engineering Pune