

Vaishakh Baragur Narasimhareddy

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EDUCATION

MS IN SOFTWARE ENGINEERING
UNIVERSITY OF CALIFORNIA, IRVINE
Expected Jan 2016 | Cum. GPA : 3.8/4

BE IN COMPUTER SCIENCE
RV College of Engineering, Bangalore,
India
2009 - 2013 | Cum. GPA: 8.69/10.0

SKILLS

LANGUAGES

Java • C • C++

DATABASES

MySQL • MongoDB

FRAMEWORKS

Struts2 • JUnit, • Mockito

FAMILIAR

HTML • CSS • PHP

• JavaScript

• Android

OTHERS

AWS • Jenkins • Maven

• Git • SVN

• Unix Shell Programming

• Sonar • Velocity • \LaTeX

IDE

Eclipse • IntelliJ Idea

LINKS

github.com/vaishakhbn

[linkedin.com/in/vaishakhbn](https://www.linkedin.com/in/vaishakhbn)

COURSEWORK

GRADUATE

Information Retrieval

Middleware for Distributed Systems

Ubiquitous Computing

Applied Software Design Techniques

Analysis of Programming Languages

Software Testing and Analysis

Network and Distributed Security

Software Engineering

Software Architecture

Computer Communication & Networks

UNDERGRAD

Analysis and Design of Algorithms

Operating Systems

Database Management System

EXPERIENCE

VIRTUAL INSTRUMENTS INC | SOFTWARE ENGINEERING INTERN

June 2015 - September 2015 | San Jose, USA

- Built REST based services that gather performance metrics from Amazon AWS and sflow and ingresses them into a Key Value Store (Redis).
- Conceptualized and implemented the first version of the SDK for building more services.

SABRE CORPORATION | ASSOCIATE SOFTWARE DEVELOPER

July 2013 - August 2014 | Bangalore, India

- Enhanced features & fixed bugs in Hotel, Air and Car, Policy and Site Admin modules of GetThere, a corporate travel booking site with SaaS architecture that serves more than 12 million transactions everyday.
- Used best practices like Agile, TDD. Worked on the entire Java Stack.
- Gathered metrics related to the functional and unit test code coverage of the product using JaCoCo and SonarQube

EXETER GROUP | SOFTWARE INTERN

Feb 2013 - May 2013 | Bangalore, India

- Automated the build process of OneGate, the Obamacare Exchange website for the state of Hawaii using Unix Shell Scripts.

INDIAN INSTITUTE OF SCIENCE, MILE LAB | SOFTWARE INTERN

July 2011 - September 2011 | Bangalore, India

- Wrote the installer for IISc's Text to Speech(TTS) Engine using Inno Setup Scripting. Reduced the size of the TTS database using on the fly conversion of audio files.

SELECT PROJECTS

WEB SEARCH ENGINE

- Developed a search engine over the ICS domain (ics.uci.edu).Project included Text processing, crawling, index ranking and Scoring. [Java, MongoDB]

DYNAMIC COMMUNITIES

- Built an Android app and a scalable RESTful backend server to create dynamic communities. Features included Group messaging using Google Cloud Messaging Service. [Android, Java, MySQL, GCM, AWS]

THE MYTH OF A GENIUS PROGRAMMER

- Analysed the stackoverflow data dump and GitHub data to understand and come to statistical conclusions about the (non)existence of genius programmers.[Java, MySQL]

PROJECTS IN SOFTWARE DESIGN

- Performed a full stack analysis of reddit.com focusing on the architectural growth over the years and scalability strategy used.
- Reverse Engineered the class diagrams, architecture diagrams and found design patterns in the Jenkins CI project.
- Designed two applications : PricePredictor and Climbing Routes, drilling down to architecture, technology stack, data modelling, UI design etc.

SOFTWARE TESTING OF JACKSON LIBRARY

- Wrote Functional and Structural test cases using Junit to increase code coverage, ran static analysers like Cobertura, PMD, Checkstyle on , a multi-purpose Java library for processing JSON data format. [JUnit, Mockito]

SERVER VULNERABILITY TO 'THE HEARTBLEED BUG'

- Analysed the Heartbleed bug and wrote a script to detect the vulnerabilities of Alexa's top 1 million websites to the bug. Found close to 50 vulnerable websites. [Java, Bash]