



Bhargav Ram K S

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EDUCATION

BE(Hons.) in Electronics & Instrumentation

August 2013 - May 2017

BITS Pilani Goa Campus

- Secured Merit-cum-means financial aid which covered 25%- 50% of the tuition fees in the 1st, 4th and 5th semesters.
- Was active in Mathletes, Mathematics association of BITS Goa from 2015-2017
- Took Mathematics courses such as Complex Analysis and Number Theory as electives and scored well in them
- Won the Integration Bee 2014 organized by Mathletes, Mathematics association of BITS Goa

TECHNICAL SKILLS

- Strong Java Essentials: Object Oriented Programming Concepts, Multithreading, JVM.
- Adept in Data Structures and Algorithms, their practical applications and problem solving in general.
- Experience with relational databases (Oracle DB) and SQL
- Basics of Shell and Git/SVN.
- HTML, CSS, JavaScript
- Initiated towards Machine Learning and Statistical Learning
- Inclination towards self study of technical topics through sources like MOOC and textbooks

PROJECTS

Projects:

1. Detection of community structures in Complex Networks: Used community detection algorithms to infer community structures in Large datasets such as Amazon Political Books recommendations, citation networks and food webs.
2. NAND to TETRIS Part 1(Hardware) Coursera: Built a computer starting from NAND Gate. Constructed the entire hardware heirarchy , the ALU, Memory, Architecture, and a Java based assembler to translate the 'hack' machine language to 0s and 1s. Part 2(Software Hierarchy) starting in June.

Mini Projects as part of OOP Specialization Coursera:

1. Earthquake Monitor : The project developed using Java displays recent earthquake activity around the world using data from US Geological Survey, maps from one of various providers through the Unfolding Maps API and tools from Processing Library.

2. Text Editor : Developed Java back - end code for a modern text editor with features like auto-complete, spell check, spelling suggestions and to measure the ease of text readability. Developed robust test cases using JUnit Framework.
3. Map Route Finder : Wrote Java back - end code of a JavaFX mapping application with the ability to provide and visualize routes from one point to another in a map using classical graph algorithms.

CERTIFICATIONS

Algorithms Specialization by Stanford on Coursera Platform (April 2018): 4 comprehensive courses on the fundamentals of Design and Analysis of Algorithms.

Object Oriented Programming Specialization - UCSD on Coursera (May 2018) : 5 courses on Object Oriented Programming and Algorithms. Capstone Project on Community Detection in Complex Networks.

Nand To Tetris Part 1 by HUJI on Coursera(April 2018) : A project oriented course on building a computer from scratch using just a NAND gate. Part 1 corresponds to the hardware heirarchy.

WORK EXPERIENCE

IIIT-Bangalore

July 2018 - Now

Junior Research Fellow(JRF)

I will be joining as a JRF and working on:

- Visual Analytics of Complex Networks
- Visual Analytics of Population Health Surveys

Oracle Financial Services Software

August 2017 - Present

Associate Consultant

Development of technical banking solutions using Oracle banking products

- Worked with Oracle Technologies like PL/SQL, Oracle 12c Database, Oracle BIP.
- JAVA API Development, code customizations and changes in deadlines, involving-debugging, testing and server deployment.
- Performed Java-based code refactoring, optimization and remediated violations to improve code quality.
- Modified existing Java-based application modules to address customer goals.
- Coordinating with Testing Teams for Test Scenario and Test Case reviews.

Indian Institute of Technology Bombay

May 2016 - Dec 2016

Project Assistant

Final year Thesis project work under the supervision of Prof. Shalabh Gupta, Department of Electrical Engg., IIT Bombay

- Worked on the design and implementation of a Train Alert System for Rail workers.
- Developed strategies to establish a proper communication between a fixed VHF based Transmitter and a hand-held receiver(HHR) so that we can adopt a train alert system for the track maintainers.
- Developed code for the AX8052 RF Microcontroller using C Programming. Implemented features like Buzzer and vibration alerts for the hand-held receiver and to give visual indications and directions of the trains in vicinity of the receiver through LEDs.

AWARDS AND RECOGNITION

- Secured All India Rank(AIR-CML) of 5660 in JEE Advanced 2013 among 150000 students eligible for the exam through JEE-Main.
- Won 1st place in Integration Bee, 2014 conducted by BITS Pilani Goa Campus Math Department.

HOBBIES

Theory and practice of Carnatic and Hindustani Classical Music, Table Tennis, Quizzing and Reading books.