

ABHISHEK HEMANT NAIK

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EDUCATION

Indiana University, Bloomington, IN, United States
Master of Science in Computer Science
CGPA: 3.5/4.0

May 2018

University of Mumbai, Mumbai, India
Bachelor of Engineering in Computer Engineering
Passed in first class with distinction (Percentage: 70.26%)

May 2013

WORK EXPERIENCE

Tata Consultancy Services (TCS), Mumbai, India
Systems Engineer (Client: General Electric)

January 2014 - July 2016

- Elicited the accounting requirements of various GE businesses and accordingly developed various procedures and packages to migrate their live data to new accounting system. Helped in revenue savings of around \$100,000 as a part of process improvement. Secured '**Six Sigma Green Belt**' certification for the same.
- Predominantly used PL/SQL, Oracle database and Microsoft Excel. Developed algorithmic thinking, leadership and cross-cultural collaboration skills due to businesses spread across 3 continents.
- Tutored a group of 11 on the team on Microsoft Excel as it was imperative for efficient productivity in time-critical scenarios.
- Organized and lead a committee '**Talk Club**' for enhancing speaking and interpersonal skills via small talk, elevator pitch, speeches, etc. modelled similar to the Toastmasters International club.

Anu Tutorials, Kalyan, India
Lecturer

June 2013 - October 2015

- Taught algorithms and databases to a class of 30 undergraduate students.
- Developed an ability to express ideas, public speaking, leadership and good presentation skills, as noted from student feedback.

TECHNICAL SKILL SET

Software tools/technologies: Vim, PL/SQL, MS Office, Windows, Linux, Git, GitHub, , GCC, Eclipse, Docker, Apache Tomcat, Ansible, Cloudmesh, Chameleon clouds, Xinu, Hadoop, MapReduce, HBase, NoSQL

Programming languages: Java, C++ (including STL), Python, C, SQL, HTML, CSS, JavaScript, PHP, R, AngularJS

Databases: Oracle, MySQL

ACADEMIC/SIDE PROJECTS

Unbounded Big Integer Datatype (C++, Ubuntu)

- Created a library for complimenting the lack of built-in Big Integer support in C++.
- Works on numbers of the order 10^9 (and can be extended depending upon the requirement)

Implementation of vehicle detection application on Chameleon Clouds (Ansible, Chameleon clouds, Cloudmesh, C++, OpenCV, VirtualBox)

- Implemented the vehicle detection application for deployment on Chameleon clouds.
- Used Ansible for deployment of software stack and Cloudmesh for Chameleon cloud control and management.

Artificially intelligent program that suggests the next best move to the 'Pichu' player (Python)

- Developed an artificially intelligent program that suggests the next best move that a white (or black) player should make in 'Pichu' (a chess like game) in order to maximize his chances of winning.
- Used minimax algorithm along with alpha-beta pruning to help increase the efficiency.

Video image extractor (AngularJS, CCV.js, HTML5, CSS)

- Developed an AngularJS web application wherein the user could upload a video and the website would generate a series of images that have faces of actors in them. No server was involved and the video upload and processing takes place locally.
- Work in progress to introduce artificial intelligence in the web application by using IBM Watson Hidden Markov Model for face detection instead of CCV.js currently being used.

Route finder among US cities (Java)

- Implemented and carried out a comparative study of various graph algorithms like Breadth First Search, Depth First Search and Dijkstra's algorithm to find out the routes amongst major US cities.

Hotel Web Application (J2EE, JSP, Servlets, Java Beans, Java Script, HTML5, CSS, Bootstrap, MVC architecture, JIRA, Agile)

- Implemented the Billing component end-to-end, working in a group of two (out of a larger group of eight).
- Developed UML diagrams and used J2EE concepts like JSPs, Servlets, Java beans, JDBC along with MVC architecture and JIRA tool for development using an Agile methodology.

Automated File Handling and processing (Python, Openpyxl, MS Excel)

- Developed and implemented a python program to automatically split huge Excel sheets and process their data to help in the generation of reports for the local on-campus bookstore. Used open source Openpyxl library for processing purposes.

Classification of the Car Evaluation Dataset (Random Forest, Decision Trees, Mosaic Plots, Box plots, R)

- Worked on the UCI Car Evaluation dataset to predict its acceptability factor.
- Used Mosaic and Box plots for the visual representation of the dataset and used Random Forest and Decision trees to achieve close to 98% classification accuracy.

AWARDS AND COMMUNITY SERVICE

- Core committee member of '**Bhakti Yoga Society**' spreading awareness about meditation & Vedic wisdom at the university.
- Delivered the '**Teach India**' course content (a CSR event by the Times of India, a leading Indian newspaper) at the grassroots' level by visiting the underprivileged youth at NGOs to teach them English speaking skills and make them job-ready.
- Awarded '**Academic Interface Program**' award for significant contribution towards TCS' campus-corporate transformation.