

ABHISHEK HEMANT NAIK

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EDUCATION

Indiana University, Bloomington, IN, United States

May 2018

Master of Science in Computer Science

CGPA: 3.5/4.0

University of Mumbai, Mumbai, India

May 2013

Bachelor of Engineering in Computer Engineering

Passed in first class with distinction (Percentage: 70.26%)

WORK EXPERIENCE

Tata Consultancy Services (TCS), Mumbai, India

January 2014 - July 2016

Systems Engineer (Client: General Electric)

- 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

June 2013 - October 2015

Lecturer

- 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, LaTeX, GCC, Eclipse, Docker, Apache Tomcat, Ansible, Cloudmesh, Chameleon clouds, UC4 automation, NetBeans, Xinu, Hadoop, MapReduce, HBase, NoSQL

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

Databases: Oracle, MySQL

SAMPLE 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, HTML5, CSS)

- Developed an AngularJS webpage 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.
- User has the option to specify the conversion rate and download either all or some of the selected images.

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.

E-commerce Website (PHP, MySQL, Bootstrap, CSS, HTML5, Apache Tomcat, JavaScript, Agile)

- Developed a full-stack e-commerce website to support online transactions, inventory management, buying recommendations and reporting along with features like Captcha and password encryption using Object Oriented development paradigm.

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 the open source Openpyxl library for all sorts of processing purposes.

Contribution to StackOverflow (Profile: <http://stackoverflow.com/users/2172854/>)

- Global top 34% contributor for current year with a significant reputation of 1025 points.
- Wrote detailed high quality answers related to various technologies and coding challenges that have been appreciated by the senior experienced coders and architects of the community.

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.