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 on the lines of Toastmasters International club.

Anu Tutorials, Kalyan, India   **June 2013 - October 2015**
Lecturer
- Taught algorithms, operating systems, programming concepts, databases, and security 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, Apache Tomcat, Ansible, Cloudmesh, Chameleon clouds, UC4 automation, NetBeans, Xinu, Hadoop, MapReduce, HBase, NoSQL
Programming languages: C++ (including STL), C, SQL, Java, HTML, CSS, JavaScript, PHP, R, Python
Databases: Oracle, MySQL

SAMPLE PROJECTS

Unbounded Big Integer Datatype (C++)
- 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)
- Implementing the vehicle detection application for deployment on Chameleon clouds.
- Using Ansible for deployment of software stack and Cloudmesh for Chameleon cloud control and management.

Hadoop MapReduce projects (Java, Hadoop, Ubuntu)
- Setup a multi-node cluster by configuring Hadoop on the local network. Used the MapReduce framework to implement Word Count, Page Rank programs.

Route finder among US cities (C++)
- 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 (Java, MySQL, Bootstrap, HTML, Apache Tomcat, JavaScript, Agile)
- Developed a full-stack ecommerce website to support online transactions, inventory management, buying recommendations and reporting along with features like Captcha and password encryption using Object Oriented development paradigm.

Xinu Operating System on the BeagleBoneBlack Hardware (C, Ubuntu, git, GitHub)
- Implemented process communication using futures, semaphores and system calls.
- Implemented the file system functions using various low level system calls.

Automated Web Patrol using Strider HoneyMonkeys (PHP, HTML, CSS)
- Developed a basic version of the HoneyMonkey, which visits the input website and detects if any malware footprint is present.

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 processing purposes.

Contribution to StackOverflow (Profile: http://stackoverflow.com/users/2172854/)
- Global top 24% contributor for current year with a significant reputation of 1011 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

- 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.
- Awarded the '**Star Award**' by the General Electric client for making top 3% contribution to a critical project.