

Anshay Ghosh [Software Engineer]

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Education:-

University of Toronto - BSc in Computer Science, Mathematics and Statistics [2014-2018]

- Current CGPA: 3.35, IB results (Grade 12): 36/45 points, IGCSE (Grade 10): 6 A*'s, 3 A's (GPA:4.0)
 - Relevant Courses: Software Design (using Java Programming in Eclipse), Software Tools and System Programming, Theory of Computation, Computer Organization/Architecture, Visual Computing, Operating Systems, Data Structures and Analysis.
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Work Experience:-

Summer Intern - Oracle Financial Softwares - Mumbai, India [July - August 2016]

- Worked on debugging the GTAP software, which handles the taxes on commissions for State Street Investment bank.
- Used Oracle DB, HTML, CSS, Java and JavaScript to work on an MVC framework with struts 2.0 and MyBatis libraries
- The final project was to implement pagination into the source code to prevent the overloading hits from query calls to servers storing billions of records.

Summer Intern - AllCargo Logistics - Mumbai, India [June - July 2013]

- Worked with a Price Waterhouse Cooper team of 6 using Microsoft Dynamics
 - Assisted in the creation of a Customer Relationship Management system that is currently being implemented by 4000 employees over 89 countries.
 - This application helped organize the sales and leads transactions for the entire sales division through which the company was able to target a wider variety of clients and integrate to stronger digital platform.
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Important Projects:-

MoodReel Android Application [January 2016]:

- Participated in the "Hack the 6ix" hackathon and created an android application using Android Studio which implemented Java and XML programs.
- Used facial recognition to calculate the current mood of the user and cross reference that with movie genres and music playlists that suited the mood calculated. It then displayed the most suitable movies (currently in theatres) using a web crawler and scrapping information from the IMDB website using Jsoup.

System Call Interceptor [February 2016]:

- Created a Kernel Module that intercepts any selected System Call from the kernel's sys call table.
- It replaces sys call in the table with an interceptor function for user selected PID's. Synchronization with locks also implemented.

Online Event Management System [December 2015]:

- Constructed this project using using socket programming in C with the netcat service which supports multiple users simultaneously allowing users to set up event polls and vote on different timings for different events.
- Allowed the users to leave comments and consistently update their choices based on comments left by other users.

E-Krishi Python Desktop App [December 2015]:

- Placed 3rd in Microsoft's countrywide Hack4India by creating a desktop application, with python geo-analytical API's, used an agricultural simulation with dynamic values of humidity, altitude, temperatures based on the current latitude and longitude to teach logical reasoning in CS.
- It used realtime prices with the help of a web crawler that grabbed information from government websites. Available on my GitHub linked below.

Command Line Shell [June - August 2015]:

- Using Java in Eclipse created a UNIX command line shell which implemented functions like grep, cd, ls, mkdir, cat, touch etc. on a mock file system and displayed the exact command line output expected.

Ashu Mathematics Quiz [June-July 2012]:

- Created a Java based Mathematics quiz which assisted the teachers of Sadhana School (a school for the mentally handicapped in Mumbai, India) by producing an infinite number of random math questions in addition, subtraction, division and addition.
 - The application also had the ability to increase and decrease difficulty of questions based on the class the students were in.
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Technical Skills:-

- Languages Studied: Java, Python, C, Assembly Language, Kernel, XML, HTML, CSS, JavaScript, SQL, Oracle DB.
- Well versed with UNIX systems.
- Subversion and GitHub for version control in projects. (GitHub Link: <https://github.com/anshayghosh>)