

AMANDEEP UPPAL

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EDUCATION

Honours Computer Science (B.A.Sc), McMaster University September 2011 – April 2015

- Entrance Scholarship upon acceptance into Engineering faculty with high grades.
- Relevant courses: Algorithms and data structures, Distributed Computer Systems, Computer Networks and Security, Databases, Computer Graphics, Web Systems and Web Computing.

SKILLS

- **Languages:** Java, Python, C/C++, Visual Studio C#, Visual Basic, HTML, CSS, PHP, JavaScript
- **Concepts:** OOP, testing methods, development methods, data structures, etc.
- **Frameworks & Libraries:** Angular.js, jQuery, Node.js, Express.js, Three.js, D3.js, Bootstrap, SASS
- **Databases:** IBM DB2, MySQL, MongoDB
- **Technologies:** Gnu/Linux, Windows OS, POSIX CLI, Bash, Apache 2, Nginx

PROFESSIONAL EXPERIENCE

Senior Student Consultant May 2013 – April 2015

University Technology Services, McMaster University

- Worked with web-application called *Facilitate* hosted on Gnu/Linux, Apache, MySQL, PHP stack.
- Programmed and maintained web-modules designed for handling lab malfunctions, compiling daily reports, reporting incidents, scheduling shift timings, performing lab occupancy, etc.
- Lead and managed the team of Student Consultants along with senior members.

Student Consultant September 2012 – April 2013

University Technology Services, McMaster University

- Provided technical support to students and staff and maintained high levels of customer service by actively listening to students and staff and addressing their concerns, which lead to an increase in satisfied lab users.
- Performed administrative and technical duties such as reporting computer malfunctions, reporting incidents, performing item inventory, lab occupancy, etc.
- Recognized for exceeding employer's expectations by displaying punctuality, commitment and excellent customer service skills.

Web developer September 2013 – January 2014

OverAir Technologies Ltd.

- Created an interface for NFC enabled sign-in system.
- Worked with the LinkedIn API to enable registration and login using LinkedIn authentication.
- Used PHP, HTML, CSS, JQuery and Bootstrap to build an interactive web-application.

KEY PROJECTS

ViMDa - Visualization of Music Data (Capstone)

September 2014 - April 2015

- Worked in collaboration with department of music at McMaster University to visually analyze music streaming statistical data.
- Used d3.js and three.js created model from the data provided by Microsoft.
- Implemented a responsive interface for the web-application using Angular.js, JQuery, HTML, CSS and Bootstrap.
- Benchmarked chosen solution to ensure scalability of data being modelled.

Facilitate (University Technology Services)

May 2013 - April 2015

- Created web-modules using PHP, HTML, CSS, JavaScript, etc. to assist Student Consultants with their duties.
- Managed the server hosting *Facilitate* and performed system-administrative duties.
- Provided technical assistance to other team members with their projects.
- Deployed test environment for development phases of *Facilitate*.

SlickTrigger (School project)

November – December 2013

- Implemented a First Person Shooter game in C++ leveraging OpenGL & GLUT technologies.
- Integrated techniques and algorithms such as double buffering, backface culling, lighting, mouse ray picking, ray intersection tests, camera control, etc.

Assist (Personal project)

November 2014 – Present

- Set up Ubuntu Gnu/Linux server called *Assist* to fulfill various technological needs.
- Used *Assist* to host personal website on a traditional LAMP stack.
- Hosted Mumble and TeamSpeak servers to enhance VoIP communications.
- Implemented dedicated Counter Strike and Killing Floor servers on *Assist* server to facilitate the gaming community.

EXTRACURRICULAR ACTIVITIES

- Contributed to McMaster Computer Science Society by assisting fellow students with their career decisions and course related issues.
- Helped Conservation Youth Corps (CYC) conserve the Credit River and its surroundings by planting trees and collecting analytical data.
- Volunteered at summer camp and taught mathematics to kids.