Upneet Randhawa

BASc Computer Engineering
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EDUCATION

Bachelor of Applied Science in **Computer Engineering, 3rd Year** **2014-Present**

University of Toronto
Deans List (2015)

TECHNICAL SKILLS

- Programming Languages: C++, C, Java, swift, JavaScript, Python, jQuery, SQL, matlab, HTML, CSS.
- Relevant courses: Algorithms and Data Structures, Operating Systems, Networks, Databases.
- Hardware Languages: Verilog, Assembly
- Operating System**:** UNIX, MAC OS X, Windows
- Applications**:** NetBeans IDE, Android Studio, Xcode, Adobe Photoshop and After Effects, Microsoft Office Suite

WORK EXPERIENCE

Software Engineer, General Motors, Markham. May 2017 – present

- Currently working at GM's Canadian Technical Centre in the Infotainment department.
- Directly working on Confidential projects, which will be deployed in all GM's cars.
- Implemented new features on my own and as well in teams.
- Worked ranged from implementing Android Applications to implementing native C++ code.
- Organized and volunteered in various extra-curricular events at office.

CTO and Co-Founder, ASUR INCORP, Toronto. April 2017 – present

- Co-founded a Software company aimed to provide efficient and effective technical solutions.
- Work ranges from Web development to Mobile App development.
- Currently working on few Confidential Projects.

Network Support and Cable Technician, IIMSWISS Corp, Brampton. Summer 2015

- Troubleshooting and maintaining a daily check of large database of GPS devices for Trailer Tracking.
- Completed both premises and off-site installations of network cable.
- For premises installations, ran cables, installed network outlets, drilled unobtrusive holes for running lines and performed testing.
- Experienced in the installation, termination, and testing of CAT6 and CAT5E copper, fibre-optic etc.
- Worked professionally and effectively in a team.

PROJECTS

Maps January 2016 – April 2016

- A C++ software program that provides functionality similar to google maps with some additional features
- Read in database of all intersections and streets in a city, draw the resulting map using OpenGL and let the user interact with it.
- Finding travel routes between two intersections and give directions.
- Locating Point of interests, traffic view, streets based on user queries.
- Used Dijkstra's Algorithm, Greedy Algorithm, DFS and implemented travelling salesman problem.

Ball Separator Winter 2016

- In a team of two, using Assembly language we programmed and designed a Ball Separator.
- Balls separated on the basis of their sizes. Later, a crane was used to store them in different containers
- The whole process was automated.

SMS Security System (SSS) Fall 2015

- In a team of two members, we Designed and built a Security System for our course project.
- It was programmed as such that whenever there is something between the sensors the program sends a text message to the owner.
- used Altera DE1-SOC FPGA, 3G module and Verilog for programming the project.
- Photo-resistors and lasers were used as a physical interface.

Domain Name Server Fall 2015

- A database to store and retrieve data, implemented using binary search tree,
- It can rapidly lookup Domain Names and return the corresponding Internet Protocol(IP) address

TEAM MEMBER, Engg. Strategies and Practices Project, U of T Winter 2015

- Collaborated with the design team of six members to develop new waste management methods for General Motors Oshawa Assembly Plant with an allocated budget of $60,000.
- As a team we composed Project Requirements, Conceptual Design Specifications, and Final Design Specifications documents.
- Presented the proposal to the client and the project manager to justify the feasibility of the proposed solution.

PERSONAL PROJECTS

Pokedex Summer 2016
- An iOS app written in Swift.
- A database showing relevant information and traits of all Pokémon's.
- Used Alamofire and JSON to parse Pokémon API.

YouTube Real-time Analytics July 2017 - present
- Currently working on an iOS app written in Swift.
- Provide real-time analytics like subscriber count, total views counter and much more.
- Allows the user to set checkpoints and notify them when they'd reached their goals.

Personal Website June 2017 - present
- At present developing my personal website from scratch using HTML, CSS3 and jQuery, hosted on GitHub pages.
- check my work here upneetrandhawa.com.

Website Reactions Aug 2017 – present
- Developing a chrome extension which allows user to react to webpages with Facebook like reactions.
- A person can see total count of every reaction on each website people reacted to.

AWARDS AND ACCOMPLISHMENTS

- **Deans List** (+3.5 GPA), U of T WINTER 2015
- University of Waterloo President's Scholarship 2014
- University of Waterloo Engineering Entrance scholarship 2014

EXTRA-CURRICULAR ACTIVITIES

- Publicity Director, SSA, UofT 2015 – present
- UTASC Cricket Tournament Winter 2016
- UofT Intramural's Winter 2017

AFFILIATIONS AND MEMBERSHIP

- Student Member, IEEE 2015 - present

SKILLS

- Conducting quantitative analysis, research and gathering data and data management
- Demonstrated team leadership, organization and management in team projects
- Strong analytical skills, leadership and teamwork skills.
- Creative, out-of-the-box thinker, with strong conceptual and problem solving skills.
- Report filing, documentation scanning and uploading to electronic databases
- Compile, organize and register documents
- Brainstorming options and solutions.
- Preparing and conduction of Presentations.
- Working with confidential information.

COMMUNICATION SKILLS

- Developed, implemented and achieved effective liaisons with interests.
- Can communicate in four different languages (English, Punjabi, Hindi and Urdu)