Upneet Randhawa

BASc Computer Engineering
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EDUCATION

Bachelor of Applied Science in **Computer Engineering, 4th Year**   **2014 - Present**

University of Toronto
Deans List (2015)
Expected Graduation May 2019

TECHNICAL SKILLS

- *Programming*   : C++, C, Java, swift, JavaScript, Ruby (Rails), Python, TCP/IP, network programming, TensorFlow, RESTful API, PostgreSQL, MySQL, NodeJS, Matlab, HTML, CSS.
- *Relevant courses*   : Algorithms and Data Structures, Operating Systems, Machine Learning, Computer Security, Computer Networks, Internetworking, Computer Architecture, Databases, Distributed Systems.
- *Hardware Languages* : Verilog, Assembly.
- *Operating System*   : Unix/Linux, MAC OS X, Windows.
- *Applications*   : NetBeans IDE, Visual Studio, Android Studio, Xcode, Adobe After Effects, Premiere and Photoshop, Microsoft Office Suite

WORK EXPERIENCE

Software Developer, Audio and Voice Recognition Team, General Motors, Markham.   May 2017 – Aug 2018

- Directly worked on Confidential projects in the INFOTAINMENT department, which will be deployed in all upcoming GM's model year 2020 cars.
- Designed developed and debugged various new features for Voice Recognition, Audio and Multimedia platform on my own and as well as with other team members.
- Work duties ranged from implementing Android Applications to implementing native C++ code.
- Organized and volunteered in various extra-curricular events at office, build and captained GM's Soccer Team for Honda's Corporate Soccer League.

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

- Co-founded a Software company aimed to provide efficient and effective technical solutions.
- Projects ranges from Web development to Mobile App development.
- Developed multiple websites and Android Apps which are live on App Store.
- Continuously working on more 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

Object Recognition and Image Search

Fall 2018 - present

- In a team of three, developing an Android App using Machine Learning to recognize objects in an image
- Providing search functionality capable of filtering images based on multiple keywords.

BoLendInc

Fall 2018

- In a team of Six, developed a web based application that helps people to borrow something and to lend out stuff to others.
- Technologies used: Ruby on Rails, HTML5, Heroku, RESTful API.

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.

Engineering 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

Confidential Project   Dec 2017 – present

- Currently working on a mobile app for both Android and iOS platforms
- Using tools/languages like Firebase, NodeJS, Java, JavaScript and Swift

YouTube Real-time Analytics   Dec 2018 – 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.

Pokedex   Summer 2016

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

AWARDS AND ACCOMPLISHMENTS

- **Deans List** (+3.5 GPA), U of T   WINTER 2015
- University of Waterloo President's Scholarship ($2000)   2014
- University of Waterloo Engineering Entrance scholarship ($6000)   2014

EXTRA-CURRICULAR ACTIVITIES

- Publicity Director, SSA, UofT   2015 – present
- UTASC Cricket Tournament   Winter 2016
- UofT Intramural's   Winter 2017
- Markham Corporate Volleyball League   Sep 2017 – Mar 2018
- Team Captain for General Motors, Honda's Corporate Soccer League   June 2018 – present

AFFILIATIONS AND MEMBERSHIP

- Student Member, IEEE   2015 - present

SKILLS

- Conducting quantitative analysis and research
- Demonstrated team leadership, organization and management in team projects
- Creative, out-of-the-box thinker, with strong conceptual, problem solving and analytical skills.
- Developed, implemented and achieved effective liaisons with interests.
- Brainstorming options and solutions.
- Preparing and conduction of Presentations.
- Working with confidential information.