Abhinav Rajaseshan

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SUMMARY

- **Software Skills: C, C++, Java, Android and Verilog.**
- Knowledge of Photoshop, After Effects, SolidWorks and other design software.
- Love to work on projects and am a **good Object Oriented programmer**.
- Experience working with Linux and running Linux systems.

PROFESSIONAL EXPERIENCE

*Lab Assistant***,** Electronics and Computing**,** Department of Chemistry, University of Toronto (September 2015 - Present)
- Building a system of humidity and temperature sensors to monitor and detect unfavorable conditions for performing experiments and unsuitable conditions for storage of sensitive equipment.

*President***,** Skule Dev, University of Toronto (September 2015 - Present)
- Leading and mentoring **multiple software design teams** working on small to medium scale projects.
- Created a learning environment by **organizing weekly seminars** on different topics by inviting student speakers.

*Software Engineer Intern***,** ETCON Middle East (Summer 2015)
- Developed and designed **Greeminder** – A personal greeting scheduler. Schedules greetings on SMS, mail and twitter.
- Used **PHP** and **SQL Server** to create an online Mail Client, a Templates API and a database of users.

Personal Projects
- **Swipe10** – Swipe10 is a trackpad driver fix for windows 10. Wrote **algorithm to detect multi-finger gestures** such as three finger swipes and map them to different windows interactions.
- **Saber Wars**- Wrote an algorithm that uses smartphone sensors to map the **phones orientation and location in 3D space** with reference to a point. Used data to control lightsaber Star Wars styled game.
- **Homey** - Homey is an award-winning **home monitoring system** powered by Intel Edison. Features like lights and temperature management can be controlled using either the Android or Pebble App remotely.
- **Sing it Now** – Sing it Now is a client-server combination which acts like a Karaoke machine. Multiple audio streams are transmitted to the local server with a **latency of less than a second**. A 4 digit code is assigned to an active room to convenience connection process.
- **Cooky** – Cooky is a recipe App. It uses Edamam's Recipe API to fetch more than 1.5 million recipes for different combinations of food available in the refrigerator.

EDUCATION

*Bachelor of Applied Science and Engineering in Computer Engineering***,** University of Toronto (Expected 2018)
- *Languages Learnt:* C, C++, Verilog, Assembly
- *Human Powered Vehicle Design Team*
  - ➢ Designed and manufactured steering system and handle bars for Vietza (2014 bike)
  - ➢ Designing App controlled electronics system (speed, distance, lights) for our 2015 bikes.
- *Course Projects:*
  - ➢ AI for connect 6. My algorithm performed **better than 80%** of the class.
  - ➢ Capsule Dispenser in Verilog. Built a physical demo using custom Machined Parts and motors.
  - ➢ Designed a Community Kitchen in Atkinson Building for Regenesis, York University.

ACHIEVEMENTS

- *Best use of Intel Homey Award UofTHacks, 2015* - Awarded to Homey.
- Indian High School Supremo Award, 2014 – Awarded to outstanding academic performance.

HOBBIES AND INTERESTS

- Created and operated http://osx6910p.blogspot.ca/ - A blog on installing operating systems on computers.
- Design graphics for Toike Oike – The Engineering Comedy newspaper at the University of Toronto.
- Volunteered at Bala Gurkulam, a Cultural Society.