Abhinav Rajaseshan

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SUMMARY

- **Software Skills: C, C++, Java, Android and PHP**
- **Founder and President of Skule Dev** – Programming club at University of Toronto (Engineering). The Club aims to work on projects, expose members to development teams and solve problems in the world using software.
- Knowledge of Photoshop, After Effects, SolidWorks and other design software.

PROFESSIONAL EXPERIENCE

Lab Assistant, Electronics and Computing, Department of Chemistry, University of Toronto (September 2015 - Present)

- Building **system** of **humidity** and **temperature sensors** to monitor and **detect unfavorable conditions** for experiments and unsuitable conditions for storage of 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.
- App published to Play Store: https://play.google.com/store/apps/details?id=com.etconme.greeminder

Personal Projects (Available on: github.com/abhiseshan*)*

- **Swipe10** – Swipe10 is a trackpad driver fix for windows 10.
  - Wrote algorithm to **detect multi-finger finger gestures** such as three finger swipes in all directions.
  - Fixes missing multi-touch gestures with synaptic trackpads in windows 10.
  - Developed using C#. Project URL: http://swipe10.xyz
- **Homey** - Homey is an award winning **home monitoring system** powered by Intel Edison.
  - Used JS and NodeJS to collect and transfer data between the **Edison, Android** and **Pebble** devices.
  - Implemented a **burglar alarm, lights** control and **temperature** monitor.
  - Developed using Android, JS, NodeJS and AJAX. Project URL: https://goo.gl/COzgc3
- **Sing it Now** – Sing it Now is a client-server combination which acts like a Karaoke machine.
  - Used **datagrams** to transfer **live audio** to local server. Server mixes background music and the received audio stream and produces an output. The server also **displays lyrics** on the host computer through our **custom encoding format**.
  - **Web backend** built to create and **manage live rooms**. IP address stored and assigned 4 digit code for easy connection.
  - Developed using Android, Java, PHP and SQL. Project URL: https://github.com/Abhiseshan/Sing-it-now
- **Arrow View** – Android animation library of an arrow switching between down and up positions. (Android)

EDUCATION

Bachelor of Applied Science and Engineering in Computer Engineering, University of Toronto (Expected 2018)

- Secured a **4.0 (A) in Programing (C Language).**
- **Human Powered Vehicle Design Team** - http://hpvdt.skule.ca/
  - Designed and manufactured steering system and handle bars for Vietza (2014 bike)
  - Designing **App controlled electronics** system for our 2015 bike.
- **Course Projects:** AI for connect 6 and a Capsule Dispenser in Verilog (with mechanical components).

Computer Science, Indian High School, Dubai (2014)

- Secured a **96% in Computer Science** (C++, SQL and Boolean algebra).

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 Gurukulam, a Cultural Society.