

ABHINAV RAJASESHAN

COMPUTER ENGINEER & DESIGNER

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SUMMARY

- **Software Skills: C++, Java, Android, Verilog.**
- Focus mainly on backend but have experience developing UI/UX for android apps.
- Can learn new languages fast and am comfortable with OOP concepts, algorithms and data structures.
- 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 a system of humidity and temperature sensors to monitor and detect unfavorable conditions for performing experiments and unsuitable conditions for storage of sensitive equipment.
- Integrating Barcode generation and scanning capabilities into JIRA to streamline the formation and retrieval of work orders. Migrating the current paper based system to an electronic system.

Founder & 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 different programming languages.

Software Engineer Intern, ETCN Middle East (Summer 2015)

- Developed 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.
- **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.
- **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 Regenesys, 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.