

# 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.