

# Abhinav Rajaseshan

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## BRIEF SUMMARY

- **Software Skills:** C, C++, Java (J2SE, J2ME), 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 with software.
- Awarded IHS Supremo Award for **Outstanding Academic** and Extra Curricular Performance in High School.
- **Hackathon Hacker** – Love to attend and build projects in hackathons. Can build and push code in short amounts of time.
- Knowledge of Photoshop, After Effects and other design software.

## WORK EXPERIENCE AND PROJECTS

### *Software Engineer Intern*, Etcon Middle East (Summer 2015)

- Responsible for designing and developing **Greeminder** – A personal greeting scheduler.
- Learnt **PHP Server** and **SQL Server** which was applied to the server backend.
- Learnt scheduling tasks and server to mobile communication techniques.
- App published to Play Store: <https://play.google.com/store/apps/details?id=com.etconme.greeminder>

### *Projects*

- **Homey** - Homey is an award winning home monitoring system powered by Intel Edison. JS is used to collect data from the sensors connected to the Edison. NodeJS was used to transfer the sensor data from the Edison to the Android and Pebble app. AJAX was used to get data to the pebble app. All functionality could be accessed and controlled through the Android and Pebble clients. (Android, JS, NodeJS, AJAX)
- **Sing it Now** – Sing it Now is a client-server combination which acts like a Karaoke machine. A Java server setup locally receives audio streams from an android device's microphone in **real-time**. The server combines the **multiple streams** and the background karaoke music and outputs it to the speaker. A frontend powered by LibGDX Java library powers the UI for song selection, playback and our lyric engine. We built a **custom lyric format and a parser** for it. To connect to our server, the user inputs a 4-digit code displayed on the Server. This 4-digit code is used to retrieve information necessary to connect to the local server from our hosted server. (Android, Java, LibGDX (Java front end), **Datagrams**, **Sockets**, PHP, SQL)
- **Action Fitness** - A fitness regime based on integral kinematics developed by **Prof. Steve Mann**. (Android)
- **Arrow View** – A android animation library of an arrow switching between down and up positions. (Android)
- **Inventory Management and Billing System**- A C++ application that builds a database of items (inventory) and automatically applies it to a billing and checkout system. (C++)

## EDUCATION

### *Computer Engineering*, University of Toronto (Expected 2018)

- Secured a **4.0 (A) in Programing (C Language)**.
- Active member in **Human Powered Vehicle Design Team** – Tasked with designing the handle bars and steering system for the 2015 vehicle.
- Designed an AI for Connect 6.
- **President of Skule Dev**, a software programming club for engineers.

### *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, a project created during UofTHacks.

### *Indian High School Supremo Award, 2014*

- Awarded to students who show excellence in curricular and Co-curricular activities.

## HOBBIES AND INTERESTS

- Used to run and maintain <http://osx6910p.blogspot.ca/> - A hackintosh installation blog.
- Designs graphics for Toike Oike – The Engineering Comedy newspaper.
- Volunteered at Bala Gurkulam, an Indian Cultural Society.