

Adrian Malaran

Mechatronics Engineering | **PROGRAM**
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4 MONTHS | **TERM**

TECHNICAL SKILLS

- **Software Languages/Frameworks:** JavaScript | Python | Django | Java | C++ | HTML5 | CSS | LESS | Bootstrap | jQuery | AngularJS | ROBOT-C | MySQL | PostgreSQL | Cassandra | AJAX | JSON | C#
- **Mechanical Design:** SolidWorks | AutoCAD | CNC Machine | CO2 Laser | 3D Printer
- **Software Environments:** Android Studio | GitHub | Unity
- **Operating Systems:** Linux | Windows

ENGINEERING EXPERIENCE

Back-end Developer

Sept 2016-Dec 2016

BlackBerry - Waterloo, Ontario

- Designed and improved software infrastructure of an intricate 6 node cloud-based data storage system supporting multiple BlackBerry apps for millions of clients
- Architected an alternative data relay method to remove database complexities, resulting in speed increases of 400% for select features
- Implemented PostgreSQL compatibility to pre-existing system to complement software functionality
- Developed internal APIs between separate system nodes to enhance security and data relay
- Constructed test scripts and analytical metrics to ensure system stability and detailed production reports

Full-stack Developer

Jan 2016-Apr 2016

BroadConnect Telecom - Toronto, Ontario

- Developed and improved features on enterprise level software to increase versatility in program functionality
- Implemented the use of WebSockets to emulate real time server reaction towards incoming data
- Imbedded the use of REST APIs (Twilio/Facebook) to develop more intuitive and interactive features on the software platform
- Assembled a promotional website using Django and Bootstrap (HTML/CSS) for company products used for marketing towards high level corporations

PROJECTS

WhereToEat (Android App)

- Currently developing a personalized application that relays close by food places extracted from the Yelp API to provide suggestions on places to eat, tailored to the preferences of the specific user

TrakRecord (Android App) | Toronto WearHacks 2016 SickKids Foundation Challenge Winners

- Developed an android application using Java in calibration with external positional beacons that delivers real-time meaningful data to a user in a marathon setting

Web Based Messaging App

- Devised a web application that enables a user to message phone numbers from a web based graphical user interface; developed using Twilio, HTML5, CSS, Python, Django, Angular, Gulp, AJAX, JSON, LESS

COSMOS Game App | Game Design Competition

- Programmed game element algorithms to introduce complexity and challenge to create a more fulfilling user experience

Personal Website (www.adrianmalaran.me)

- Architected a full personal website using HTML, CSS and AngularJS

Mars Rover Design Team | University of Waterloo

- Aided in the creation of the rover's chassis through fabrication of parts using a lathe, mill and band saw

Ukulele Tuner

- Programmed the system using ROBOT-C to independently interpret the pitch and engage the mechanical components accordingly to adjust the tension in the strings to the correct pitch

OTHER EXPERIENCE

Back-Up Dancer

July 2014, August 2015

The Filipino Channel (TFC)

- Collaborated, organized and choreographed with various international celebrities for concert showcases

EDUCATION

UNIVERSITY OF WATERLOO

- Currently ranked 19th out of 93 in the class
- President's Scholarship of Distinction (Awarded to Applicants with a 95%+ Average)