

# Thomas Arellano

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## SKILLS

- Proficient in **C++**, **C#**, **Java**, **JavaScript**, **HTML5**, **CSS**, and **Android development** through work, projects, and courses
- Familiar with **Python**, **SQL**, **PostgreSQL**, **React**, **Redux**, **SASS**, **jQuery**, **Webpack**, and **Bootstrap** through work and projects
- Experienced using **git**, **SVN**, **Jenkins**, **Travis CI**, **JIRA**, and **Rally** in an agile work environment
- Exceptional independent worker demonstrated by **building complete Android app** with little guidance at BanaLogic

## EXPERIENCE

### D2L | SOFTWARE DEVELOPER

Sep 2017 - Dec 2017 | Kitchener, ON

- Worked on D2L's Brightspace platform with technologies including **JavaScript**, **React**, **Polymer**, **C#**, **SQL**, and **PostgreSQL**
- Implemented features in **React** app for K-12 lessons tool with interactive table of content and focus on learning standards
- Added unit tests with frameworks including **jest**, **jasmine**, and **NUnit** and improved accessibility in apps to **ARIA** standard
- Worked with **SQL Server** and stored procedures to implement conditional release of material based on attendance
- Fixed defects in **Polymer** HTML Editor through work on D2L's **REST-like API interface** and **tinymce** open-source project

### THESCORE | ANDROID AUTOMATED QA CO-OP

Jan 2017 - Apr 2017 | Toronto, ON

- Collaborated with a team of engineers in an agile environment to test and develop theScore's Android Sports App
- Created **python script** to automate licensing by processing open source libraries and outputting generated HTML to CMS
- **Developed unit tests** for various aspects of the app using **testing frameworks including JUnit, PowerMock, and Mockito**
- Built and improved instrumentation tests using **Espresso** leading to meaningful continuous integration reports from Jenkins
- Worked with **databinding**, **JSON**, **REST** and **proprietary APIs** to implement new features and designs in the core app

### BANALOGIC | SOFTWARE DEVELOPER

May 2016 - Aug 2016 | Richmond Hill, ON

- **Developed Android application** to test and report vehicle's diagnostic for standardized vehicle emission quality
- Used the **java native interface** to work with device serial port for vehicle-to-device communication
- Collaborated with hardware engineer to manufacture custom microcontroller for OBD2 port transmissions
- Implemented **XML serialization using kSOAP2-android** to send diagnostics to **SOAP WebService following HTTPS**
- Designed simple and efficient UX to allow any car owner the ability to diagnose their vehicle in **less than 2 minutes**
- Tested various types of vehicle standards, diagnostic trouble codes, and parameters to ensure quality reports were created

## PROJECTS

### RESISTRO | REACT WEBAPP

Apr 2017 - Present | Toronto, ON

- Developed open-source resistor colour code calculator with interactive UI using **React**, **Redux**, and **Webpack**
- Used **git** for version control and setup **Travis CI** and **Github Pages** for continuous integration and deployment

### LEDGER | ANDROID APPLICATION

Apr 2017 - Present | Toronto, ON

- Developed application to record simple transactions between friends using **SugarORM** for persistent storage
- Designed elegant user interface using **ButterKnife** to view all ledger entries inside custom recycler view

## EDUCATION

### UNIVERSITY OF WATERLOO | CANDIDATE FOR BACHELOR OF APPLIED SCIENCE, COMPUTER ENGINEERING

Expected May 2020 | Waterloo, ON

Relevant Courses:

- Algorithms and Data Structures, Operating Systems, Compilers, Digital Systems Engineering, Embedded Microprocessors