


Arnoldo Rodriguez

Computer Engineering
University of Waterloo (class of 2021)

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PROJECTS

Resistor Scanner • Android app that scans resistors using the phone camera and determines the value in Ohms. It is fully written in Kotlin and without using any computer vision libraries. Google Play link: <https://bit.ly/38d76Z3> (15K+ downloads)

Morse Code Encoder & Decoder • iOS & Android app that decodes Morse code using the phone camera and transmits using the camera flash and speaker. Google Play link: <https://bit.ly/2VEM2rK> (15K+ downloads)

Personal Website • Static website built from scratch using HTML, CSS and JavaScript, which contains more info about other projects. Visit at: <https://bit.ly/2XbQRcE>

Social Network Database • Created APIs for a social network database (data extracted from Kaggle) using Go and GraphQL.

RELEVANT EXPERIENCE

Software Engineer | Cisco Meraki

San Francisco, California | Sept – Dec 2019

- Designed and developed app features in **React Native** to visualize networks of devices on maps using **Google Maps API**.
- Made **open source** contributions to the **react-native-maps community library** to add support for overlay rotations on maps.
- Used **Redux** to manage application state along with **redux-thunk** middleware.
- Maintained and updated existent **Android** and **iOS** native modules.

Mobile Developer | Oanda Corporation

Toronto, Ontario | Jan – Apr 2019

- Developed multi-chart trading feature for both **iOS** and **Android** platforms of Oanda's Forex Trading app.
- Worked along with designers in the implementation of custom feedback channels using **Firestore Remote Config**.
- Assisted in the implementation of trading alert subscription and notification system using **Firestore Cloud Messaging**.
- Ported features, trading tools and added multi-theme support to **Android** tablets and iPads.

Test Automation Developer | Laborie Medical Technologies

Mississauga, Ontario | May - Aug 2018

- Improved and validated existent tools to speed up by a factor of 6x the testing of medical devices' software.
- Developed **C#** tool to generate reports out of existent test plan data, and to manipulate test cases on **VSTS**.
- Added automation support for test steps related to medical software applications.

Embedded Systems Software Developer | Tigercat Industries

Paris, Ontario | Aug – Dec 2017

- Developed system in **C#** to visualize machine production data collected from sensors, with positive customer feedback.
- Created multithread **TCP/IP** network socket application to run transceiver simulations from multiple machines.
- Wrote maintainable and extensible code for web (**JavaScript**, **PHP**) and **.NET** applications.
- Implemented and documented algorithms for processing and displaying sensor data in **C#**-generated graphs and reports.
- Developed automated build system for transceivers' firmware using **Shell Scripts**.

SKILLS HIGHLIGHT

Languages • C/C++, Kotlin, JavaScript, Java, Swift, Go, GraphQL, C#, Python, Shell Scripting, MySQL.

Tools & Frameworks • VSCode, Android Studio, IntelliJ, XCode, Firebase, Docker, Git, Amplitude, Jira, Phabricator, MATLAB.

ADDITIONAL EXPERIENCE

- Firmware developer at Midnight Sun student team • 2019 University of Waterloo
- Represented my hometown in the 13th edition of Mini Basket in Piazza International Tournament in Italy.