Alessio Symons

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EDUCATION

University of Waterloo
Candidate for Honours Bachelor of Computer Science
Expected 2021 | Waterloo, ON

SKILLS

Languages
Java • Kotlin • C • Python • Web
Other Technology
Android • Firebase • React Native • Node.JS • Git & SVN

LINKS

Github: **asymons**
Devpost: **alessiosymons**
StackOverflow: **asymons**
LinkedIn: **alessiosymons**

EXPERIENCE

TD INNOVATION LAB | DEVELOPER INTERN
May 2017 – August 2017 | Kitchener, ON
- Developed 3 Android apps in Kotlin that brought visibility to my team and technical directions for TD to follow.
- Implemented a fully-featured cross platform chat interface using Firebase.
- Engineered a classification model with machine learning that held the highest accuracy across the lab.

SOUNDSCAPE ENGINEERING | WEB DEVELOPER INTERN
May 2016 – January 2017 | Windsor, ON
- Visualized vibration sensor data by creating a website that utilized d3.js, Node.js, MySQL and OAuth2.
- Improved data-visualization rendering time from 4 seconds to less than 1 second with data optimization.
- Decreased load time from 15 seconds to 2 seconds for 300,000+ data points.

SENTIOMMG | SOFTWARE DEVELOPER INTERN
September 2015 – April 2016 | Windsor, ON
- Created solutions to increase product visibility with an iOS app to display product information.
- Configured a Windows Embedded Operating System on a Surface Pro 3 to interface sensitive surgical equipment.

PROJECTS

NAOMI | INTELLIGENT LIFESTYLE COACH
- Constructed a chat bot and an app that motivates and tracks users fitness, nutrition and wellness goals.
- Integrated API.ai for natural lanuage processing, Firebase real-time database, React Native cross-platform support and Redux state manager.

DON'T LOOK | SHOULDER SURFING PREVENTION APPLICATION
- Developed a desktop application to hide information from unauthorized people looking at a computer screen while in use.
- Utilized face-detection technology to recognize multiple users looking at a screen using OpenCV, C++ and Java.

ADAS | AUTONOMOUS DRIVING SYSTEM
- Conceived a new way for any car model to incorporate autonomous driving on highways with a dashboard camera.
- Tracked car lanes to indicate appropriate times to drive straight or turn using OpenCV and C++.

INVOLVEMENT

FIRST ROBOTICS | PROGRAMMING CAPTAIN & MENTOR & VOLUNTEER
Sept 2012 – Present | Windsor, ON
- Developed operable and fully autonomous robots capable of stacking boxes and shooting exercise balls.
- Initiated a program known as STEM Play to encourage Science, Technology, Engineering and Mathematics education in youth through LEGO robotics.