

SKILLS

Proficient Languages: C++, Java

Familiar Languages: C, Objective-C, Python, SQL, Shell Scripting Web Development: HTML5, CSS3, JavaScript, ¡Query, AngularJS

Data Analysis: Microsoft Excel, MATLAB

Platforms and Tools: Linux, Android, Eclipse, Git, SVN

WORK EXPERIENCE

Software Engineer Intern - Google, Nest Labs, Palo Alto CA

Apr 2016 - Sept 2016

- Migrated the front-end of a macOS app to web using Tornado web sockets and Angular 2, redesigning core UI elements with Google's design language in the process
- · Built a database system to store product test data using SQLAlchchemy and SQLite
- Developed an automated factory system to calibrate transceiver path loss of Wi-Fi, Bluetooth and ZigBee technologies using Objective-C

Systems Software Developer Intern - BlackBerry, Ottawa ON

Sept 2015 – Dec 2015

- Developed a kernel driver to send diagnostics from the Android kernel space to the event logging server using C
- Created an automated testing framework for BlackBerry diagnostics using Java and UI Automator, which has been adopted by other developers to reduce test creation time by up to 90%

Java Developer Intern - TD Securities, Toronto ON

Dec 2014 - May 2015

- Developed a Java application to automate contract booking and repaying, ultimately cutting processing time on the trading desk by 93%
- · Redesigned login design and workflow using Java Swing API to improve the end user experience

Supply Chain Analyst Intern - George Weston Limited, Toronto ON

Oct 2013 – Jan 2014

• Developed the company's automated National Obsolescence Report to detail current and forecasted financial impact of expired goods, saving seven hours of manual work biweekly

QA Analyst Intern - NexJ Systems, Toronto ON

Jan 2013 – Apr 2013

Extensively tested CRM software on web and mobile, logging over 40 undiscovered bugs

EDUCATION

University of Waterloo, Waterloo ON

Sept 2012 - Apr 2017

· Candidate for BASc degree in Systems Design Engineering, Honours

PROJECTS

Muto (2016) • € jonathandeiven.com/blog/muto

 Created a USB HID-compliant modular game controller where the physical control layout is selected by the user to control computer games developed for Windows and Mac

• Implemented a CHIP-8 CPU interpreter using C++ and the SDL library for graphics, capable of running 8-bit ROM files like Space Invaders

Cautio (2015) • ₽ jonathandeiven.com/blog/cautio

• Developed an "Internet of Things" embedded system for police gun accountability using a Raspberry Pi, accelerometer and gyroscope