

Scott R. Krulcik

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Education

Carnegie Mellon University

B.S. Computer Science - Minor in Software Engineering - 3.77 QPA - Expected Graduation in May of 2018.

Saratoga Springs High School

Graduated 3 of 547 in June of 2014. Scored 2400 on SAT in May of 2013.

Work Experience

Google Inc. - Software Engineering Intern *May 2016 - August 2016*

Created infrastructure to make Android apps at Google more robust, performant, and idiomatically consistent. Redesigning a blocking networking library to adopt a Guava-backed asynchronous model, improving its resource utilization. Pushed changes to multiple apps with millions of live users. Coordinated between international teams to develop requirements and perform a staged migration. Gained experience with concurrent programming, Dagger dependency injection and project planning.

WhatsApp (Facebook) - Software Development Intern *May 2015 - August 2015*

Designed and developed the entire (unreleased) Apple Watch App for WhatsApp's iOS team. Implemented push notification actions and ensured stable performance under low storage conditions on iPhone. Gained experience working with Apple's watchOS 2 and Grand Central Dispatch. Collaborated with a team of fast moving, performance-driven developers on a global product with nearly one billion users. Presented work to the WhatsApp engineering team. Met with Apple to discuss developing for watchOS 2.

Prom App LLC - Co-Founder, Developer *July 2014 - May 2015*

Designed and developed an iOS app with a partner in the fashion industry. Implemented social media integration, location querying, and cloud processing into an app available on the Apple App Store. Built similar features into a responsive web application. Formulated a marketing strategy and designed a user interface to promote a brand.

[Website](#) - [App Store Page](#)

Valogix LLC - Software Development Intern *June 2013 - August 2014*

Implemented new features and improved user experience in enterprise inventory management software. Worked in Java, JSP, Python and JavaScript. Used Postgres and the Spring Framework. Learned to work in a professional environment.

Technical Projects

Planetary Robotics (CMU Lunar XPRIZE Team) *January 2016 - Present*

Developed a video compression library implementing an algorithm I developed to optimize performance on unforgiving deep space networks. Presented results to Red Whittaker and Astrobotic engineers. [Website](#)

Principles of Software Construction *January 2016 - May 2016*

Wrote best in class data visualization framework and failure-resistant MapReduce framework.

Engineering Design and Development - Project Leader *September 2013 - June 2014*

Led a team of 21 students to implement my design for a stereolithography 3D printer and supporting software. [Github](#)

Other Experience And Interests

ScottyLabs - Director of Technology *September 2015 - Present*

Manage ScottyLabs' APIs, plan TartanHacks and organize developer workshops. [ScottyLabs](#) - [TartanHacks](#) - [WDW](#)

Programming Languages

Advanced: Java, C, Swift — Intermediate: Objective-C, JavaScript, SML, Python — Proficient: HTML, CSS, bash

Interests

Yellowstone Tracking Expedition — Tracked wolves and bears in the field with the goal of identifying specific packs and individual predators to monitor their location for conservation purposes.

New York State Military Museum Tour Guide — Encouraged appreciation for history and those who served.

Sports — Kyokushin Karate (2nd Degree Black Belt), Kickboxing, Hiking, Downhill Skiing, Pole Vaulting