

Education **Carnegie Mellon University** – B.S. Computer Science (Dec 2014)
GPA: **3.88 / 4.0**

Work **Duolingo** – Senior Software Engineer, Tech Lead (Spring 2015 - Present)
Led development on the Duolingo English Test, a **computer-adaptive language proficiency exam**. Managed priorities and code quality for a team of engineers. Designed, implemented, and analyzed A/B tests to improve the exam’s accuracy, user experience, and stability on poor networks.

Google – Software Engineering Intern (Summer 2013)
Designed, implemented, and launched new internal APIs and documentation for a major Google publisher-subscriber system. This system is used by Chrome, Google+, and Google Drive. The new APIs, written in **JavaScript** and **Google’s Closure Library**, significantly increased the system’s ease of adoption.

Mozilla – Software Engineering Intern (Summer 2014)
Designed and implemented APIs for Firefox’s Add-on SDK. Made a number of other contributions to Firefox’s developer tools. Worked in **Javascript**.

Research **Online Curriculum** (Fall 2014)
Worked with Professor Frank Pfenning to develop an online programming course. Computer Science students at Carnegie Mellon University will use this course to prepare for 15-122, one of Carnegie Mellon University’s introductory programming classes.

Mechanical Logic (Fall 2012 - Spring 2013)
Worked with Professor William Nace to develop working mechanical logic gates and an accompanying boolean logic tutorial. Deployed this tutorial to over 100 students from local high schools. Received the **Frank-Ratchye STUDIO for Creative Inquiry Award** and **First Penguin Award** for this research at undergraduate research expos.

“Beacon” Bike Gloves (Spring 2014)
Designed, manufactured, and programmed smart bike gloves that enhance cycling hand signals with LEDs. Received the **Yahoo! Undergraduate Research Award** for this research at an undergraduate research expo.

Teaching **“Coding Club” at Propel East** (Spring 2016, Spring 2017)
Developed and taught introductory programming courses at Propel East, part of a charter school network for underserved communities in Pittsburgh. Taught **Python**, **Processing**, and **Scratch** to after-school classes of around a dozen students every week.

15-112 Course Assistant (Fall 2012 - Fall 2014)
Taught and mentored novice programmers in Carnegie Mellon’s most difficult introductory computer science course, which uses **Python**. I taught recitations for 30 students, held tutoring and review sessions for many more, and guided the development of term projects.

Skills **Full-stack Development, Python, Javascript, Project Management, Data Analysis**

Awards **Dean’s List** (Fall 2011 - Fall 2014)
First Penguin Award: *Build18* Computer Engineering Hack-Week (Spring 2013)
Frank-Ratchye STUDIO for Creative Inquiry Award: *Meeting of the Minds* (Spring 2013)
Yahoo! Undergraduate Research Award: *Meeting of the Minds* (Spring 2014)