

# Eileen Jiang

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## Education:

Bachelor of Computer Science at Carnegie Mellon University – Pittsburgh, PA | May 2017

Minor: Human-Computer Interaction | QPA: 3.02/4.00

## Relevant Courses:

15-418: Parallel Computer Architecture & Programming

15-411: Compiler Design

15-451: Algorithm Design and Analysis

10-601: Intro to Machine Learning

05-391: Designing Human-Centered Software

15-210: Parallel and Sequential Data Structures & Algorithms

**Technologies:** Python, C/C++, Java, OCaml / Standard ML, HTML/CSS

## Experience:

Facebook Inc. – Software Engineering Internship	<ul style="list-style-type: none"><li>• Worked at MPK Facebook on Real Time Infrastructure</li><li>• Improved push notification performance for Messenger and FB</li><li>• Technologies Used: Java, Hack</li></ul>	Summer 2016
Parallel SAT Solver For 15-418: Parallel Comp Arch	<ul style="list-style-type: none"><li>• Created an efficient k-SAT solver based off the DPLL algorithm</li><li>• Parallelized and optimized binary decision tree to achieve a 4-5x speedup</li><li>• Technologies Used: C++</li></ul>	Spring 2016
C0 Compiler For 15-411: Compiler Design	<ul style="list-style-type: none"><li>• Designed and implemented an optimizing compiler from C0 to x86-64 Assembly, optionally targeting the LLVM backend</li><li>• Technologies Used: OCaml, ocamlc</li></ul>	Fall 2015
Cloud Raxak – Software Engineering Internship	<ul style="list-style-type: none"><li>• Worked at a cloud security startup to develop a management console that flagged keys and VMs in a Redis database that didn't adhere to a specific model</li><li>• Created an editor that allowed users to create personalized security profiles with rules and custom parameters for each rule</li><li>• Technologies Used: Python, AWS, Unicorn, Redis</li></ul>	Summer 2015
Teaching Assistant for School of Computer Science	<ul style="list-style-type: none"><li>• Courses taught:<ul style="list-style-type: none"><li>15-110: Principles of Computing</li><li>15-122: Principles of Imperative Computation</li><li>15-112: Fundamentals of Programming and Computer Science</li></ul></li><li>• Introduced programming and computer science concepts to 1600+ students through office hours, recitations, grading, group sessions, and one-on-one help</li></ul>	Spring 2014-present
PennApps X Hackathon	<ul style="list-style-type: none"><li>• Created BeatStreet, a music synthesizer that coordinates with the user's body to produce beats, specifically detecting different patterns in the user's feet, arms, and hands</li><li>• Utilizes the Myo API, Arduinos, pressure sensors, and accelerometers</li><li>• Technologies Used: Myo, C++</li></ul>	Sept 2014