Eileen Jiang

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Education:

Bachelor of Computer Science at Carnegie Mellon University – Pittsburgh, PA | May 2017
   Minor: Human-Computer Interaction

Relevant Courses (*denotes current):

*15-418: Parallel Computer Architecture & Programming	*15-214: Principles of Software Construction
15-411: Compiler Design	15-251: Great Theoretical Ideas in Computer Science
15-451: Algorithm Design and Analysis	15-210: Parallel and Sequential Data Structures & Algorithms

Technologies: Python, C/C++, OCaml / Standard ML, Java, x86-64 Assembly, HTML/CSS

Experience:

C0 Compiler
   For 15-411: Compiler Design — *Fall 2015*

- Designed and implemented an optimizing compiler from C0 to x86-64 Assembly, optionally targeting the LLVM backend
- Created a lexer, parser, typechecker, and register allocator
- Technologies Used: OCaml, ocamlyacc

Cloud Raxak
   Software Engineering Internship — *Summer 2015*

- 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
- Created an editor that allowed users to create personalized security profiles with rules and custom parameters for each rule
- Technologies Used: Python, AWS, Gunicorn, Redis, Treelib

Teaching Assistant for School of Computer Science — *Spring 2014-ongoing*

- Courses taught:
  - 15-110: Principles of Computing
  - 15-122: Principles of Imperative Computation
  - 15-112: Fundamentals of Programming and Computer Science
- Introduced programming and computer science concepts to 1500+ students through office hours, recitations, grading, and one-on-one help
- Wrote Python scripts to autograde homework

PennApps X Hackathon — *Sept 2014*

- 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
- Utilizes the Myo API, Arduinos, pressure sensors, and accelerometers
- Technologies Used: Myo API, C++

BitCamp Hackathon — *April 2014*

- Created JudgeMeHarder, a website for individuals to consult others on decisions they are about to make
- Displays upvotes and downvotes for each post, as well as top 10 and worst 10 with random post and search functionality
- Technologies Used: HTML, CSS, MongoDB, Flask Python