EUGENE LUO

CONTACT

Email: eug@cmu.edu
Cell: 813-220-4989
https://github.com/eyluo
https://eyluo.github.io

SKILLS

Languages:
- C
- Python
- SML
- JavaScript
- Scala
- ASM (x86-64, ARM)
- SystemVerilog
- SQL

Tools:
- GDB
- Git + GitHub
- bash
- macOS
- Linux
- React
- Scio
- GraphQL

COURSEWORK

Current & Completed:
- 18-349: Introduction to Embedded Systems
- 15-210: Parallel & Sequential Data Structures & Algorithms
- 15-213: Introduction to Computer Systems
- 15-150: Principles of Functional Programming
- 18-240: Structure/Design of Digital Systems

Upcoming:
- 15-410: Operating System Design & Implementation

EDUCATION

Carnegie Mellon University | Pittsburgh, PA
B.S. Electrical & Computer Engineering
Additional Minor in Computer Science
GPA: 3.74/4.00
- College of Engineering Dean's List F16 S17
- UAA All-Academic Recognition

Expected Graduation
May 20

EXPERIENCE

Software Engineering Intern — May 18 - Aug 18
Honey Science Corporation | Los Angeles, CA
- Worked with backend data engineering team to update store information in GCloud Spanner and rewrote data pipelines to access new databases.
- Determined data quality standard for web-scraped store information by running SQL queries and working with the systems quality team.
- Updated React website components to access new GraphQL APIs.

Teaching Assistant: 15-213 Introduction to Computer Systems — Aug 18 - Present
Carnegie Mellon University | Pittsburgh, PA
- Taught computer system concepts including x86-64 machine code, dynamic memory allocation, processes and threading to 60+ students over two recitations.
- Led office hours and large group review sessions for 100+ people.

Teaching Assistant: 15-112 Fundamentals of Programming & CS — Jan 17 - May 18
Carnegie Mellon University | Pittsburgh, PA
- Taught CS principles such as Big-O analysis, recursion, and OOP in recitations.
- Mentored 50+ students in project design for final term project and hackathons.

Frontend Developer — Aug 17 - Dec 17
Carnegie Mellon Computer Science Academy | Pittsburgh, PA
- Worked with design team to write frontend IDE components.

PROJECTS

ARM Kernel | Partner-based project for 18-349 — Oct 18
- Wrote a kernel for the Raspberry Pi that supports context swaps, rate-monotonic scheduling, and mutexes with highest-locker protocol in ARM ASM and C.

GigHub Concert Planner — Feb 18
- Built a web-app using Flask and Bootstrap to search for concerts by artists and provide transportation/lodging options via Google Maps and Bandsintown APIs.

TrailerVR — Nov 16
- Developed a mobile app with Google Cardboard and Vuforia API to project a film's info and trailer onto a poster of the film in VR. F16 Hack112 Grand Prize.

ACTIVITIES

Varsity Swimmer — Aug 16 - Oct 18
Carnegie Mellon University
- 2017 UAA Conference Team Member.

President — Aug 17 - Present
Plaidvocates
- Organized wellness events and seminars for the student-athlete community.