

OWEN LI

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EDUCATION:

Carnegie Mellon University, Pittsburgh, PA,
B.Sc in Computer Science GPA: 3.7/4.0

Sep 2020 - May 2024

Relevant Coursework: Algorithm Design and Analysis, Probability, Statistical Inference, Compiler Design, Computer Systems, Machine Learning, Probabilistic Combinatorics, Constructive Logic, Abstract Algebra, Real Analysis, Theoretical CS, ZF Set Theory, Advanced Linear Algebra, Discrete Differential Geometry

SKILLS:

Programming Languages: Rust, Python, Standard ML, Dart, C, C++, HTML, Prolog

Frameworks and Libraries: Eigen, Flutter, Numpy

Softwares and Tools: Git, Linux, LaTeX, Docker, AWS EC2, Mathematica, Unix Shell, Gdb, Vim

PROJECT EXPERIENCE:

Student, 15-411 Compiler Design (in progress), Carnegie Mellon University

Jan - May 2023

- Worked in a team of two on a compiler for 'C0', a safe subset of C language.
- Implemented register allocation, purity analysis, frontend (lexing, parsing, elaboration), and IR generation.
- The compiler is implemented using **Rust**, and targets **X86-64** assembly.
- Source code cannot be made public due to course policy, but I can share it privately.

ACADEMIC EXPERIENCE:

Teaching Assistant, 15-251 Great Ideas in Theoretical CS, Carnegie Mellon University

Sep - Dec 2022

- Hosts recitations and office hours, teaches students theoretical CS and discrete math, including randomized and approximation algorithms, DFAs / NFAs, decidability, P vs NP.
- Grades students' assessments and weekly homeworks.
- Collaborates with other teaching assistants to manage exam / recitation logistics.
- Verifies and revises recitation handouts and grading rubrics weekly.

Student Researcher, Math Department, Carnegie Mellon University

May - Sep 2022

- Conducts research on the Projective Amalgamation Property of the class of connected planar graphs with connected epimorphisms.
- Collaborates with two other students during research, under the guidance of Professor Aristotelis.