

Theo Kroening

@ theodore@kroening.com

☎ (412) 880-7939

in theo-kroening

EDUCATION

Carnegie Mellon University

Bachelor of Science, Computer Science

May 2025

Pittsburgh, PA

- *Selected Coursework:* (15-213) Computer Systems, (15-210) Parallel Data Structures and Algorithms (15-251) Theoretical Computer Science, (15-281) AI (15-330) Computer Security
- *Current Coursework:* (15-312) Programming Languages, (15-451) Algorithms

Magdalen College School

High School Diploma

June 2021

Oxford, England

- *Selected Coursework:* A-Level Computer Science
- A-Levels: (Computer Science: A*, Biology: A*, Russian: A*, Maths: A*, Further Maths: A)
- Academic Scholarship

EXPERIENCE

School of Computer Science, Carnegie Mellon University

Teaching Assistant - 15-213 (Introduction to Computer Systems)

August 2023 - Present

Pittsburgh, PA

- Held weekly recitations and office hours to help students with coursework and strengthen conceptual understanding.
- Performed code reviews for ~15 students for each lab, meeting with them to discuss their feedback.
- As part of the code review team, organized code reviews for over 20 TAs.

School of Computer Science, Carnegie Mellon University

Teaching Assistant - 15-112 (Fundamentals of Programming and Computer Science)

January 2022 - August 2023

Pittsburgh, PA

- Held weekly recitations and office hours to help students with coursework and strengthen conceptual understanding.
- Hosted weekly review sessions ("large groups") to review topics before quizzes.
- Mentored over 40 students through their final Python programming projects. Advised on code organisation, style, and key programming principles.
- As QA lead, set standards for assessing the quality of recitations and other course events. Led a small team of 6 TAs in collecting and returning feedback in a timely manner.

PROJECTS

Wean 9

15-112 Term Project

Fall 2021

Pittsburgh, PA

- Implemented a 2000-line game in Python and `tkinter`, making heavy use of OOP. The project was selected from several hundred others as the winner of the Term Project showcase by popular vote.

Dragonfly

High School Term Project

2021

Oxford, England

- Designed and developed a learning platform for students, interviewing both students and teachers to determine program features and objectives.
- Implemented a robust backend with Python Flask and SQL, together with a fully-featured web application written in vanilla Javascript.

TECHNICAL SKILLS

Computer Languages

Python, C, C++, Javascript, SML, SQL, HTML, CSS

Protocols & APIs

XML, JSON, AJAX

Tools

Vim, \LaTeX