

Eli Slothower

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🌐 www.elislothower.com

📍 Pittsburgh, PA

Skills

Technical

Python • HTML/CSS • C •

JavaScript/Vue.JS • SML •

Object-Oriented Programming

Soft Skills

Problem-Solving • Leadership •

Creativity • Time Management •

Effective Communication

Extracurriculars

Students Using Data for Social Good

Data Project Member

Currently working on the Group Against Smog and Pollution project by engineering heat maps of pollutants

Habitat for Humanity

Secretary & Texas Trip Leader

Building houses for those in need

Tartan Scholars

An invite-only organization meant to meet the needs of high-achieving leaders who come from limited-resource and underrepresented backgrounds

Piano

Continuing my 11-year journey in the arts by learning how to play the piano

Education

Carnegie Mellon University

B.S in Computer Science, Mathematical Sciences

May 2025

Relevant Coursework: Algorithms and Data Structures/C (15-122),

Python (15-112), Computer Systems (15-213), Computation (15-251)

Work Experience

Carnegie Mellon University

TA for 80-101, Dangerous Ideas in Science and Society Aug. 2023 – Present

- Teaching students how to articulate personal beliefs effectively and create argument visualization maps, increasing LSAT scores by 71%
- Engaging students in critical discussion about difficult societal topics

MIDL Technology

Software Engineer

Jun. 2023 – Aug. 2023

- Engineered an alert-builder via an advanced node-based system written with ReactFlow, Next.js, and JSON, enabling 100,000+ unique alerts
- Built check-in application for visitor-kiosks, enhancing 1,000+ kiosks
- Integrated new features into the admin dashboard, like enhanced audit logs, object-filtration charts, and more for 100's of system admins

Playspaces

Software Engineer / Creative Technologist

Aug. 2022 – Jun. 2023

- Aided in reengineering codebase in C#/Unity and backend in Python, helping the company earn the \$1,250,000 from the IES SBIR grant
- Ideated STEM-based lessons/puzzles, creating dozens of new activities
- Designed/built company website used to promote products for numerous grant applications

Creative Technologist Intern

Jun. – Aug. 2022

- Engineered application prototype for funding using Vue.JS/HTML/CSS
- Created iOS/Android wrapper of web application, allowing application to run natively on-device without internet connection

Projects

Power Method, QR Method, and Deflation

Dec. 2022

- Wrote a final Linear Algebra and Matrices course paper and Julia code that proves advanced principles of the course

EcoSim

Dec. 2021

- Engineered a final Introduction to Computer Science course project, a desktop app built in Python, that simulates ecosystems through terrain generation, different species, mutations, graphs, and more

Hack112 Hackathon @ Carnegie Mellon

Nov. 2021

- Ideated and created 'Audentify', a song recognition game that detects songs based on the lyrics you sing, built in Python and with APIs

Find more on www.elislothower.com