

Eli Slothower

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www.elislothower.com
Pittsburgh, PA

Skills

Technical

Object-Oriented Programming •
Python • HTML/CSS • C •
JavaScript/Vue.JS • SML •

Soft Skills

Advocacy • Problem-Solving •
Leadership • Creativity •
Time Management •

Extracurriculars

Students Using Data for Social Good

Generating awareness and creating practical solutions for social justice issues by collaborating with non-profits and government organizations on data-driven projects

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, Software Engineering May 2025
Relevant Coursework: Algorithms and Data Structures/C (15-122),
Python (15-112), Computer Systems (15-213), Computation (15-251),
Parallel & Sequential Algorithms (15-210), Software Engineering (17-313)

Work Experience

Carnegie Mellon University

TA for *Dangerous Ideas in Science and Society.* Aug. 2023 – Dec. 2023

- 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 Jun. 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
- 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

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

EcoSim

- 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

- 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