Eli Slothower

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🌐 elislothower.com
📍 Pittsburgh, PA – Able to relocate

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, Software Engineering   *May 2025*
Relevant Coursework: Algorithms and Data Structures/C (15-122), Python (15-112), Computer Systems (15-213), Discrete Math (21-127)

Work Experience

MIDL Technology

Software Engineer   *Jun. 2023 – Present*

- Engineering an alert-builder for enhanced system control and response
- Employing Next.js for optimized web performance and enhanced user interface development
- Creating node-based systems with ReactFlow
- Utilizing JSON for efficient rule parsing and data integration
- Exercising creative control in functional and visual design for a user-friendly experience

Playspaces

Software Engineer / Creative Technologist   *Aug. 2022 – Jun. 2023*

- Reengineering codebase in C# and Unity
- Building backend services in Python and Django
- Creating STEM-based lessons, puzzles, and activities
- Learning about advanced physics engines
- Collaborating closely with company executives to shape the company

Creative Technologist Intern   *Jun. – Aug. 2022*

- Engineered application prototype for testing and funding using Vue.JS, JavaScript, HTML, and CSS
- Created iOS/Android wrapper of web application

Projects

Power Method, QR Method, and Deflation   *Dec. 2022*

- Wrote a final Linear Algebra and Matrices course paper and 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 APIs

DHS Proud   *May 2021*

- Built iOS app for Dover Area School District that awards points given to exemplary students to buy snacks and school merchandise

Find more on www.elislothower.com