

# Eli Slothower

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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 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 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](http://www.elislothower.com)