

# ELI YOUNG

☎ +1 619 930 2573 | @eliyoung4now@gmail.com |  LinkedIn |  GitHub |  Portfolio | 📍 Signal Mountain, TN

## EDUCATION

### Swarthmore College

B.Sc. in Computer Science & Mathematics with an emphasis in Statistics

Swarthmore, PA

Sept. 2022 – May 2026

**Relevant coursework:** Algorithms, Data Structures, Computer Systems, Discrete Math, Linear Algebra, Statistical Methods I, Calc I-III

## SKILLS

**Languages:** Python, C++, JavaScript/TypeScript, HTML, CSS, C, Dart, SQL, R, Godot, Bash, PHP

**Technologies:** React, Flask, Node.js, React.js, MySQL, Git, Docker, AWS, PyTorch, TensorFlow, SkLearn, Firebase, Flutter, Regex

**Methodologies:** Agile, OOP, Functional Programming, CI/CD, TDD, Unit Testing, Linux, Powershell

## EXPERIENCE

### Torchman IP LLC

Swarthmore, PA

Software Engineering Intern

Sept. 2024 – Present

- Enabled lawyers to rapidly automate processing office actions, track response deadlines, and generate legal response documents.
- Processes USPTO office actions, integrating OCR (tesseract) and Regex, the OpenAI API, and Selenium and BeautifulSoup to extract critical patent data to CSVs, generate patent summaries and response templates, and retrieve referenced PDFs from Google Patents.

### The Nonprofit Alliance

Swarthmore, PA

Front-end Intern

June 2024

- Revamped a non-profit's Fundraiser Symposium page, cleaning and modernizing the design, user interface, and performance.
- Wrote JavaScript and PHP in WordPress terminals to remove ~1,000 redundant pages and integrated custom plugins, HTML, and CSS.

### Savvy Seniors Tech Institute Initiative

Signal Mountain, TN

Founder

June 2023 – Present

- Founded a local tech literacy business that makes personalized help available for 1,000s of seniors in Signal Mountain aged ~55+.
- Increased skills including navigating Windows, macOS, social media, mobile devices, productivity software, video calling family, etc.
- Hired by Ascension Living's Alexian Village retirement home to facilitate a weekly "office hours" for tech help, assisting ~300+ elders.

### Meridian Health Solutions

Swarthmore, PA

SEO Intern

May 2023 – Aug. 2023

- Leveraged Expression Engine (EE) and Google Keyword Planner for an SEO audit adjusting keywords, meta tags, headers, and structure.
- Ultimately elevated overall traffic as demonstrated by an increase in Google's search ranking from ~#70 to ~#6 within three months.

## PROJECTS

### Free Throw vs. Fatigue

[GitHub](#)

Statistical Analysis of NBA Player Performance Data

Sept. 2024 – Present

- Utilized Python to analyze the effect of fatigue on NBA free throw accuracy, isolating impact across 24 seasons and 30 teams.
- Engineered web scraping pipelines to track real-time player fatigue by parsing play-by-play data for free throws, substitutions, and in-game time implementing exponential backoff for API rate limit handling and error exception during large-scale data collection.
- Visualized players' free throw percentages in consecutive minutes against baseline career averages through matplotlib.

### Lock In

[GitHub](#)

Cross-Platform Productivity App Development

May 2024 – Present

- Employed JavaScript and TypeScript to build a stopwatch productivity app limits distractions and provides incentives to stay on task.
- Integrated with Firebase for cloud sync, plus Kotlin foreground services and Swift Screen Time APIs to monitor and blacklist unwanted apps. This application supports an intuitive UI.

### PredictaCare

[GitHub](#)

Machine Learning for Healthcare Optimization

April 2024 – June 2024

- Trained and built a machine learning model on patient demographics and appointment types data. The use case is optimizing medical scheduling through appointment duration predictions, reducing the wait time to increase the medical institute's operational efficiency.
- Backed by SkLearn's linear regression, hosted via Docker with a JS server, HTML, and a Flask backend for the model and datasets.
- Showcased with two peers at Drexel's 11th annual Philly Codefest "Leveraging AI for the Common Good," amongst ~30+ other teams.

### Swat Swap

[GitHub](#)

C2C Platform Development for College Students

Jan. 2024 – Present

- Spearheaded the design and development of a Swarthmore-specific marketplace with Swarthmore College Computer Society (SCCS).
- Managed technical implementation with Next.js, TypeScript, and containerization, guiding developers in UI and server-side components, Prisma database schema and PostgreSQL, and MinIO storage for secure messaging, advanced search, and user profiles.

## EXTRACURRICULARS

### Swarthmore International Collegiate Programming Contest (ICPC)

Swarthmore, PA

Team Member

Sept. 2024 – Present

- Solved complex algorithmic problems in high-pressure team environments, enhancing skills for regional and global competitions.
- Placed 5th at ICPC's 2024 NA South Division 2 competition at Wilkes University, solving algorithmic problems under strict time pressure.

### Swarthmore College Computer Society (SCCS)

Swarthmore, PA

Member & Project Lead

Feb. 2024 – Present

- Maintained servers and developed software collaborating with ~60 members to support the community. Was Swat Swap project lead.