

# ELI YOUNG

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

## EDUCATION

### Swarthmore College

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

Swarthmore, PA

Sep 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

Software Engineering Intern

Swarthmore, PA

Sep 2024 – Present

- Enabled lawyers to automate rapidly 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

Front-end Intern

Swarthmore, PA

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

Founder

Signal Mountain, TN

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

SEO Intern

Swarthmore, PA

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

Statistical Analysis of NBA Player Performance Data

[GitHub](#)

Sep 2024 – Present

- Programmed analysis of fatigue's effect on NBA free throw accuracy, isolating impact across 24 seasons (2000-2024) and all 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.
- Plotted players' free throw percentages in first continuous stretches against baseline career averages, presenting resulting graphs.

### Lock In

Cross-Platform Productivity App Development

[GitHub](#)

May 2024 – Present

- Facilitated the development of a stopwatch productivity app that can limit distractions and provide incentives to stay on task.
- Built with React Native in JavaScript and TypeScript, integrated with Firebase for cloud sync, this application supports an intuitive UI. Kotlin foreground services and Swift Screen Time APIs allow users to stay conscious, monitoring and blacklisting unproductive apps.

### PredictaCare

Machine Learning for Healthcare Optimization

[GitHub](#)

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

C2C Platform Development for College Students

[GitHub](#)

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)

Team Member

Swarthmore, PA

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)

Member & Project Lead

Swarthmore, PA

Feb 2024 – Present

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