

# SEAN DONOVAN

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## EDUCATION

**University of Pennsylvania**– Philadelphia, PA

May 2027

**Bachelor of Science in Computer Science, Concentration in AI** , GPA: 3.5

Relevant coursework: Data Structures and Algorithms, Functional Programming in OCaml & Java, Mathematics for Computer Science, Fundamentals of Python.

## SKILLS & CERTIFICATIONS

- **Programming Languages:** Java, Python, JavaScript, React, HTML/CSS, SQL, SQLite, C, OCaml, Git, Framer Motion.
- **Frameworks:** Flask, Laravel, Jinja, Tailwind CSS, Bootstrap, ThreeJs, NodeJs, Animate CSS.
- **Certifications:** CodePath Intermediate Technical Interview Prep, CodePath Intermediate Web Development, [Harvard University Computer Science Principles](#), [Sololearn SQL Databases](#), [Sololearn JavaScript Programming](#).

## EXPERIENCE

**Webacy - Independent Researcher** | Remote

May 2024 – Aug 2024

- Analyzed 20+ emerging blockchain technologies, assessing market positioning and technological offerings to identify industry trends and innovation opportunities resulting in a 30% improvement of the Wallet Score feature.
- Evaluated 10+ non-mainstream Web3 security competitors, synthesized findings into a strategic market map, recommending 5+ blockchain solutions that increased the company's market share by 5%.

**Afrizo College Consulting - Lead Developer** | Boston, MA

Dec 2023 – Feb 2024

- Engineered a custom NLP-based AI application that optimized organizational workflow, reducing scholar integration time by 70% and increasing support efficiency for Afrizo's 3-month initiative by 30%.
- Engineered a comprehensive support suite with live chatbots and AI integration, improving consultant-team communication by 70% and driving \$10,000 in additional sales while managing 100+ daily customer interactions.
- Enhanced the counseling team's capacity by 50% enabling them to handle the entire cohort's pre-advising consultations by building a Virtual AI Counselor using Python and ManyChat APIs.

**KaziPlus.com - Lead Software Engineering Intern** | Nairobi, Kenya

May 2023 – Aug 2023

- Optimized website's front-end using CDNs, JavaScript, and CSS, resulting in 50% faster page load times and 75% reduction in signup friction, significantly enhancing user experience and developer productivity.
- Increased user trust by 40% and tripled backend capacity by implementing Google authentication and redesigning architecture using SQL and Laravel, enhancing data management for job posts and user profiles.
- Implemented Trello and KanBan methodologies to streamline task tracking for 6 interns, resulting in 25% improvement in collaboration efficiency and 40% faster project completion times.

## PROJECTS

**Hack Mate - FullStack Developer** | Team of 8

[GitHub](#)

- Boosted app security and credibility by 70% through implementation of OAuth client with Google and GitHub, utilizing unique state tokens to prevent CSRF attacks.
- Utilized Flask, Jinja, Google OAuth API, GitHub OAuth API, Framer Motion, Tailwind CSS.

**Word Lingo - Frontend Developer** | Team of 1

[GitHub](#)

- Engineered a browser-based transcription & translation app utilizing web workers to run Machine Learning models, achieving 5x faster processing times and zero server costs compared to server-side solutions.
- Utilized React, Tailwind CSS, Font Awesome Icons, CDNs and Hugging Face APIs.

**Gym Jam - FullStack Developer** | Team of 1

[GitHub](#) | [View Project](#)

- Developed a fitness application that improved user workout efficiency by 70% and increased workout adherence by 40%, resulting in 100+ waitlist members and securing App Store funding.
- Utilized Spotify SDK Web API, React, CDNs, Tailwind CSS and custom data analysis recommendation algorithms.

## LEADERSHIP & AFFILIATIONS

**CIS-1100** | Java Tutor | University of Pennsylvania

Aug 2024 – Present

**Google Developer Student Club** | Community Member | University of Pennsylvania

Jun 2024 - Present

**ColorStack** | Community Member | Remote

Apr 2024 – Present

**CodePath** | Community Member | Remote

Jan 2024 – Present

**Fife-STEM Academy** | Python Tutor | West Philadelphia Schools

Sep 2023 – Present