

SEAN DONOVAN

Philadelphia • (267-366-5935) • donovans064@gmail.com • [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

EDUCATION

University of Pennsylvania— Philadelphia, PA May 2027

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

Relevant coursework: Applied Machine Learning, Software Engineering, Databases, Data Structures and Algorithms, Functional Programming in OCaml & Java, Mathematics for Computer Science.

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.

Swang - Software Engineer |

Team of 1

- Engineered a programming language and compiler suite on RISC V architecture to run stack-based operations.
- Designed for the 150+ million Swahili speakers for equitable access to programming and utilized C and Assembly.

Word Lingo - Frontend Developer |

Team of 1 | [GitHub](#) | [View Project](#)

- 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