

SEAN DONOVAN

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

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, Swift.
- **Frameworks:** Flask, Laravel, Jinja, Tailwind CSS, Bootstrap, ThreeJs, NodeJs, Animate CSS, NodeJs, Sass, Express.
- **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 NodeJs, ExpressJs, Sass, Tailwind CSS, Font Awesome Icons, CDNJs 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, CDNJs, 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