Sean Donovan

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EDUCATION

University of Pennsylvania , School of Engineering and Applied Sciences   **Philadelphia, PA**
Bachelor of Computer and Information Science   *May 2027*
Concentrations: Artificial Intelligence **GPA:** 3.5/4.00
Related Coursework: University of Pennsylvania: Functional Programming in OCaml & Java, Mathematics for Computer Science; Object-Oriented Programming. Data Structures and Algorithms

SKILLS AND CERTIFICATIONS

Programming: Java, Python, JavaScript,, Flask, HTML/CSS, SQL, C++, C, OCaml, PHP, Laravel, React
Tools: Git, Bootstrap, Agile, Kanban Methodology
Certifications: Technical Interview Prep | CodePath, Intermediate Web Development | CodePath, Computer Science Principles| Harvard University and SQL Databases (SQL) | Sololearn
Affiliations: CodePath, ColorStack, National Society for Black Engineers.

PROGRAMMING EXPERIENCE

Afrizo College Consulting   **Boston, MA**
Lead Developer.   *Dec 2023 – Feb 2024*
- Spearheaded a 3-month initiative in the development of a custom AI application designed to optimize organizational flow, expedite scholar integration, and augment support for Afrizo College Consulting's startup.
- Facilitated a 90% faster scholar integration process through AI-driven automation, significantly outpacing previous benchmarks.
- Enhanced the counseling team's capacity by 50%, enabling them to handle the entire cohort's 3-week pre-advising consultations using tailored-.
- Integrated with Air Table, Open AI Assistants, and Many Chat APIs to build 3 fully-fledged 24-hr support systems for prospective clients, college consultants and organizational teams, improving communication efficiency by 70%.

Kazi Plus.com   **Nairobi, Kenya**
Software Development Engineering Intern   *May 2023 – Aug 2023*
- Worked in Kazi Plus a small organization whose purpose is increasing accessibility to students pursuing internships and top companies in Kenya looking for Tech talent by connecting the two parties.
- Revamped company website's UI/UX with custom JavaScript and CSS, enhancing data display and accessibility about open internships for students in Computer Science.
- Introduced and led the 'Internship Daily Log Initiative' to enhance the learning experience of fellow interns by promoting daily documentation of acquired skills, insights, lessons from failures, and technical knowledge.

RESEARCH EXPERIENCE

Webacy   **Remote**
Independent Research Extern   *May 2024 – Aug 2024*
- Analyzed 20+ emerging blockchain technologies, assessing market positioning and technological offerings to identify industry trends and innovation opportunities.
- Evaluated 10+ non-mainstream Web3 security competitors, detailing product offerings, market placement, and consumer insights to identify potential disruptors.
- Synthesized findings into a strategic market map, recommending 5+ blockchain solutions to enhance company competitiveness.

PROJECTS

Twitter Bot - Solo Developer | Simple Machine Learning and Artificial Intelligence   *Mar 2024 – Mar 2024*
Lead Developer   View on GitHub
- Coded a Twitter bot using a machine linear regression algorithm to generate realistic tweets.
- Mastered data cleaning, regular expressions, Markov Chains, and working with CSV files in Java.

PennPals | Instant Messaging, Community Channels and Server State   **Philadelphia, PA**
Lead Developer   *Apr 2024 – Apr 2024*
- Built a Java-based chat server similar to Slack, managing real-time communication between multiple clients

Computing Human Evolution | Bioinformatics   **Philadelphia, PA**
Lead Developer   *Feb 2024 – Feb 2024*
- Utilized OCaml for DNA sequence analysis in evolutionary biology.

Harvard CS50 Stock Trading App   **Nairobi, Kenya**
Lead Developer   *Jan 2023 – March 2023*
- Engineered a live stock trading app using the IEX Apparate Cloud Data API that managed over 100 stock transactions with 100% accuracy

ACTIVITIES AND LEADERSHIP

CodePath   **Remote**
Technical Interview Member   *May 2024 – Present*
- Led biweekly 3-4 member sessions and worked with teams of 90+ software engineers, interviewing and being interviewed on technical problems.

University of Pennsylvania Department of Computer and Information Science   **Philadelphia, PA**

Tutor for CIS 1100 (Introduction to Computer Programming in Java) *Jan 2024 – Present*
- Held weekly tutor sessions for 3 students on fundamental concepts in Java.

Fife-STEM Penn CS Academy **Philadelphia, PA**
Tech-Ed Social Impact Coding Instructor *Sep 2023 – Present*
- Hosted Python programming classes for 30+ students, with teams of 3 graduate students across 3 schools in West Philadelphia. Coordinated weekly office hours for 10+ students.