Shawn Aviles

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Education

Stevens Institute of Technology, Hoboken, NJ

B.Eng in Computer Engineering, ***Conc.*** in Software Engineering & Design | **GPA:** 3.96 — May 2024
M.Eng in Computer Engineering, ***Conc.*** in Artificial Intelligence | **GPA:** 4.0 — May 2025
Awards: Dean's List, HKN IEEE Member, HSF Scholar, Tau Beta Pi, Edwins A. Stevens & Kenneth W. Freeman Scholarship
Courses: Data Structures & Algorithms, Differential Equations, Discrete Mathematics, Microprocessors, Operating Systems

Work Experience

Software Development Engineer Intern | Boston, MA

Amazon — May 2024 - August 2024
- Developed & deployed the Joining Advisor tool using **AWS CDK** for infrastructure, **DynamoDB** for storage, & **Lambda** for aggregation & calculations using **Java** & **Typescript**, providing business leaders w/ insights to optimize pre-boarding processes
- Created data visualizations & analytics with **React** leveraging **API Gateway** & internal component libraries generating a new level of visibility of 300 production candidate timelines, relevant speed & costs, maintaining **JUnit and Jest unit test** coverage
- Led integrations with 4 partner teams, leading to involvement with L7 to L9 Engineers to plan end of quarter initiatives

Software Engineer Intern | New York, NY

Intuit Mailchimp — May 2023 - December 2023
- Neutralized high-risk CSRF vulnerabilities on a hard deadline with client side **JavaScript** & **Google Cloud Storage** enhancing security, safeguarding company's assets, & maintaining **Jest Unit Test** coverage
- Developed Email Editor's AI Assistant Tone Selection feature using **React**, **Less CSS**, and **PHP** released to 300,000+ users
- Single-handedly owned team's **Playwright** test suite, migrating over 50% of automated tests, modernizing the suite, and led AI Modal accessibility testing, establishing new color contrast compliance patterns
- Analyzed touchpoint data to calculate & communicate Generative AI API peak request rates for company level budgeting
- Collaborated in GenAI Marketing Teams's weekly Agile meetings, enhancing team discussions & coordination

Software Developer Intern | Remote

Stevens Institute of Technology — May 2022 - November 2022
- Worked for Prof. Alex Wellerstein to create a pdf annotation desktop application for macOS & windows using **ElectronJS**
- Developed browser feature to traverse, search, filter, & update local file system storage using **jQuery**, **NodeJS**, & **Bootstrap**
- Created feature allowing 5 core data fields to be indexed to improve user experience, extensibility, & querying speed by 50%
- Deployed **PHP** Server to sync & update JSON files containing 1500+ annotations across all instances of the application

Leadership

Stevens Blueprint Club | Vice President of Projects — February 2023 - Present
- Coordinated 35+ member visit to Google NYC office & organized Senior UI/UX Designer guest speaker from Intuit
- Managed 6 project teams working closely w/ 4 non-profit organizations, hosting bi-weekly meetings & mentoring developers
- Led team of 9, to create Blueprint Chapter's website using **Next.js** & **Tailwind CSS** adhering to brand assets & **Figma** mockups

Projects & Research

Cerify | Hackathon | Github | Figma — October 2024
- Developed mobile application using **React Native** providing cognitive games to patients with Dementia, boosting brain health
- Implemented **Express.js** server to stream data from **MongoDB Atlas** database for doctors and caregivers to customize activities based on patient's game performance winning "Best Use of MongoDB" at HackRU Fall 2024
- Designed an intuitive and accessible interface in **Figma** using calming colors and large buttons to cater to an older user base

AI Researcher - Neural Networks | *Stevens Institute of Technology* — January 2022 - September 2022
- Created Neural Network using **TensorFlow** to analyze & predict distance of trees from a given photo for forest mapping
- Tested three iterations of Convolutional Neural Network with differing layers to achieve accuracy of 80%

Skills & Certifications

Languages: Typescript, JavaScript, Python, Java, C, C++, HTML, CSS, PHP, SQL
Technologies: React, Next.js, Node.js, tRPC, TailwindCSS, Playwright, Jest, Express.js, Bootstrap, Docker, PostgreSQL, MongoDB
Software: Git, AWS, GCP, Postman, Figma, Unity, SolidWorks, Arduino, AutoCAD