

Shawn Aviles

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Education

Stevens Institute of Technology, Hoboken, NJ

B.Eng in Computer Engineering, Conc. in Software Engineering & Design

May 2024

Masters of Engineering in Computer Engineering

May 2025

GPA: 3.96 | **Awards:** Edwins A. Stevens & Kenneth W. Freeman Scholarship, Dean's List, HKN IEEE Member, HSF Scholar, TBP

Courses: Data Structures & Algorithms, Differential Equations, Discrete Mathematics, Microprocessors, Probability & Statistics

Leadership: President of Men's Volleyball Club, Vice President of Projects for Blueprint, CPE Student Advisory Council Rep.

Work Experience

Software Development Engineer Intern | Boston, MA

Amazon

May 2024 - August 2024

- Developed and deployed the Joining Advisor tool using **AWS CDK** for infrastructure, **DynamoDB** for storage, & **Lambda** for aggregation & calculations, providing Amazon business leaders with insights to optimize new hire pre-boarding processes.
- Created data visualizations & analytics with **React** leveraging **API Gateway** & internal component libraries generating a new level of visibility into candidate timelines, relevant speed & costs, all while maintaining **JUnit** and **Jest** unit test coverage.
- Led integration with 4 partner teams, leading to project exposure to L7 to L9 Engineers for end of quarter initiatives

Software Engineer Intern | Brooklyn, 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 2 non-profit organizations, hosting bi-weekly meetings and mentoring developers
- Led team of 9, to create Blueprint Chapter's website using **React** & **TailwindCSS** adhering to brand assets & Figma mockups

Projects & Research

Nautical Translator | Hackathon | nautical-translator.vercel.app

November 2023

- Won award for "Best Use of Kintone" at NJIT's 2023 Hackathon with 200+ participants, working in group of 4 developers
- Developed full stack web app using **React**, **Tailwind**, **Express.js**, & **Kintone** for users to explore & learn about nautical terms

AI Researcher - Neural Networks | Hoboken, NJ

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, C, C++, Java, HTML, CSS, PHP, SQL

Technologies: React, Node.js, tRPC, TailwindCSS, Playwright, Jest, ElectronJS, Express.js, jQuery, Bootstrap, Docker, PostgreSQL

Software: Git, AWS, GCP, Postman, Figma, Unity, SolidWorks, Arduino, AutoCAD