

# 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 Science in Computer Engineering**

May 2025

**GPA:** 3.99 | **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 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 while maintaining 90% **Jest unit test** coverage
- Developed Email Editor's AI Assistant Tone Selection feature using **React**, **Less CSS**, **PHP**, and **Playwright** for **E2E** test coverage which was released to 10,500+ beta users
- Migrated **GCP** App Engine design service to Cloud Run, conducted loading testing via **Locust**, saving \$3000 in monthly fees
- Collaborated in GenAI Marketing Teams's weekly Agile meetings, enhancing team discussions & coordination
- Analyzed touchpoint data to calculate & communicate Generative AI API peak request rates for new product launches

**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, querying speed, & extensibility
- Deployed **PHP** Server to sync & update JSON files containing 1500+ annotations across all instances of the application

**Coding Instructor** | Remote

*Varsity Tutors*

December 2021 - August 2022

- Taught fundamentals of different programming languages like **C++**, **Python**, & **Java** to 15+ college students
- Collaborated with students & parents to develop individual lesson plans & materials to convey new information effectively

## 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 2 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
- Utilized **ESLint**, **Prettier**, & **Husky pre-commit** hooks to ensure consistency & decrease merge conflicts while working in team

## Projects & Research

**Nautical Translator** | Hackathon | [nautical-translator.vercel.app](https://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**, **Express.js**, **Node.js**, & **Kintone** for users to explore & learn about nautical terms
- Implemented TailwindCSS & Material Tailwind component library to craft a user-friendly & responsive interface

**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:** JavaScript, Typescript, Python, C++, HTML, CSS, PHP, Java, SQL

**Technologies:** React, Node.js, Less, TailwindCSS, Playwright, Jest, ElectronJS, ExpressJS, jQuery, Bootstrap, Docker, PostgreSQL

**Software:** Git, GCP, AWS Fundamentals & DevOps (Coursera), Postman, Unity, SolidWorks, Arduino, AutoCAD