Shawn Aviles

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Education

Stevens Institute of Technology, Hoboken, NJ

*B.Eng in Computer Engineering, **Conc.** in Software Engineering & Design* — Expected December 2024

Masters of Science in Computer Engineering — Expected May 2025

GPA: 4.00/4 | **Awards:** Edwins A. Stevens Scholarship, Kenneth W. Freeman Scholarship, Dean's List, HKN IEEE Member

Courses: Data Structures and Algorithms, Probability and Statistics, Differential Equations, Discrete Mathematics, Engineering Design and Systems Thinking I II III & IV, Microprocessor Systems, Entrepreneurial Thinking, Information Systems Engineering

Leadership: *President* of the 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 - Present

- Engaged in daily stand-ups with the Smart Content Generation Team, actively contributing and coordinating
- Proactively researched and assimilated the company's best practices, to implement in development environment

Software Developer Intern | Remote

Stevens Institute of Technology — May - 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 data fields to be indexed to improve user experience, querying speed, and 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

- Collaborated with students and parents to determine student needs to develop individual lesson plans
- Taught 15+ college students fundamentals of different programming languages like **C++**, **Python**, and **Java**
- Prepared teaching materials & training modules for students to consolidate and convey new information effectively

Projects

Stevens Blueprint Website | Club — February - April 2023

- Built Blueprint chapter's website using **ReactJS** & **TailwindCSS** on the frontend adhering to brand assets and wireframes
- Utilized **ESLint**, **Prettier**, & **Husky pre-commit** hooks to ensure consistency & decrease merge conflicts while working in team
- Created **responsive** layouts and **refactored** codebase to prioritize extensibility & scalability for future developers

Sticky Notions | Personal — February - June 2022

- Developed Sticky Note Web App to sync notes w/ Notion database to increase productivity without hindering cpu usage
- Used **ReactJS** and **Bootstrap** to create frontend with an **ExpressJS** middleware to handle Notion API Requests

Research

Technical Lead - Interactive Document | Hoboken, NJ

Stevens Institute of Technology — December 2022 - May 2023

- Managed team of 8 students to develop an interactive text formatting system with quizzes, live coding exercises, & records
- Utilized **Regex**, **HTML**, **CSS**, & **JavaScript** to create dynamic frontend able to generate interactive & formatted documents

AI Researcher - Neural Networks | Hoboken, NJ

Stevens Institute of Technology — January - September 2022

- Created Neural Network using **TensorFlow** to analyze and 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

Technologies: ReactJS, TailwindCSS, ElectronJS, NodeJS, ExpressJS, jQuery, Bootstrap, GraphQL, Docker, Dash

Software: Git, Unity, SolidWorks, Arduino, KiCAD, AutoCAD, AWS Fundamentals & DevOps (Coursera)