

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: 3.99/4 | **Awards:** Edwins A. Stevens & Kenneth W. Freeman Scholarship, Dean's List, HKN IEEE Member, HSF Scholar

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

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

- Collaborated in GenAI Marketing Teams's weekly Agile meetings, enhancing team discussions and coordination.
- Calculated Generative AI API peak request rates for new products, ensuring 100% readiness by analyzing touchpoint data and communicating to interdisciplinary teams pre-release.
- Neutralized a high-risk Cross Service Request Forgery vulnerability, achieving enhanced security through client-side **JavaScript** and **Google Cloud Storage**, while preserving 90% **unit test coverage** in a deadline-driven context.
- Implemented Tone Selection for Email Editor's AI Inline Assistant feature alongside UI improvements, impacting 50,000+ users, by leveraging **ReactJS**, **Less** and **PHP** for Generative AI API integration.

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

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

Projects

Stevens Blueprint Website | Project Lead, Club

February - April 2023

- Led team of 9, to create Blueprint chapter's website using **ReactJS** & **TailwindCSS** adhering to brand assets & Figma mockups
- 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

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, Less, TailwindCSS, ElectronJS, NodeJS, ExpressJS, jQuery, Bootstrap, Docker, Dash, MySQL

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