

# 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, Stevens Grant, Kenneth W. Freeman Scholarship, Dean's List

**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 Design for Blueprint, *CPE Student Advisory Council Rep.*

## Work Experience

**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 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

**Code Sensei** | Midland Park, NJ

*Code Ninjas*

June 2019 - April 2020

- Taught 50+ children 3D-Modeling, game development, and coding in **JavaScript**, **Scratch**, **Lua**, and **Python**
- Conducted one-on-one and group sessions for students teaching via curriculum-based learning

## Projects

**Sticky Notions** | Personal Project

February 2022 - June 2022

- Developed and tested Sticky Note Web Application to sync quick notes to Notion database to increase productivity
- Deployed as Google Chrome Extension allowing users to utilize Notion without hindering cpu usage
- Used **ReactJS** and **Bootstrap** to create frontend with an **ExpressJS** middleware to handle Notion API Requests

## Research

**AI Researcher** | Hoboken, NJ

*Stevens Institute of Technology*

January 2022 - 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%

**Technical Lead** | Hoboken, NJ

*Stevens Institute of Technology*

December 2022 - Now

- Managed team of 8 students to develop an interactive text formatting system with quizzes and live coding exercises.
- Utilized **Java**, **Regex**, **HTML**, **CSS**, & **JavaScript** to create full-stack web app able to generate graphs, & interactive documents.

## Skills & Certifications

**Languages:** JavaScript, Python, C++, HTML, CSS, PHP, Java

**Technologies:** ReactJS, TailwindCSS, ElectronJS, NodeJS, jQuery, Bootstrap, MongoDB

**Software:** Git, Unity, SolidWorks, Arduino, KiCAD, AutoCAD

**Certifications:** AWS Fundamentals & DevOps (Coursera), NOCTI Workforce Competency