

Aidan Ouckama

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Education

2022 - 2026 **Bachelor of Science in Computer Science**
Stevens Institute of Technology
Hoboken, NJ

- 3.7 GPA

Technical Skills

Programming Languages:

Python • JavaScript • HTML / CSS • Java • C#

Experience

- May 2023
Present

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Software Developer
NUKEMAP 3D / VR • Hoboken, NJ
Cesium.js, JavaScript, Project Planning

 - Developed core functionality for NUKEMAP 3D/VR project, translating nuclear detonation information into realistic mushroom cloud visualizations on a map using Cesium.js and JavaScript
 - Demonstrated strong proficiency in JavaScript and effective project planning skills, ensuring smooth execution of the proof-of-concept, and setting a solid foundation for subsequent project iterations
- Apr 2023
Jun 2023

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Student Instructor
Stanford University • Remote
Python, Teaching, Course Management, Communication

 - Lectured for Stanford's *Code in Place*
 - Taught Stanford's CS106A course to students all around the world, one of the most popular courses at Stanford University, taken by 1,600+ students annually
 - Educated students on elementary-level topics in Python, leveraging libraries such as Karel and Tkinter
 - Instructed a class, scheduled class topics, distributed handouts, coded live, and followed lesson plans for 50-minute sections
- Jun 2022
Jan 2023

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Lead Software Developer
Laptop Upcycle • Montclair, NJ
Google App Script, JavaScript, Databases, User Experience, Data Analysis

 - Ran and developed the backend of a technological non-profit that receives and repairs laptops for those who are financially unable to afford laptops for their kids and students
 - Built a registration system storing the information of 200+ volunteers using Google App Script with a workflow process involving a multitude of G-Suite-based databases and forms
 - Automated volunteer registration, enabling swift volunteer onboarding, freeing up valuable time and resources for the organization, which impacted the non-profit's ability to serve a more significant number of underprivileged children and students in need
 - Documented and charted the workflow of the registration system and added simple UI elements for future interns to learn, understand, and build upon the system
- Sep 2020
Nov 2020

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Frontend Developer
Launchpad • Remote
React, React Native, Expo

 - Trained one-on-one with Mukund Iyengar, founder and director of Launchpad@Stevens and iSTEM@Stevens
 - Built a multitude of mobile applications using React Native and Expo

Achievements and Awards

National Honors Society

Weston Science Scholar: Exclusive science-based academic program for high-achieving students

Pinnacle Scholar: Academic program for the top 100 applicants at the Stevens Institute of Technology

Dean's List: Fall 2022, Spring 2023

Personal Projects

Developed a Personal Portfolio Website

- ouckah.dev*
- Built a personal portfolio website using Next.js and Tailwind CSS to display personal information about myself and the projects I have created

Created an MNIST Digit Classifier

- Developed a neural network that classifies 28 x 28 handwritten digits from the MNIST digit dataset using Numpy and Pandas
- Organized a Jupyter Notebook Demo logging progress and newly learned information

Created a Resume Rewriter Tool

- Created a tool that takes a job title and description along with a user's current resume and outputs a rewritten version of the original resume which is catered towards the inputted job using Next.js, Tailwind CSS, LangChain, and OpenAI's API, which is currently displayed on my portfolio website
- Learned about the usage of APIs and the full-stack capabilities of Next.js. Also learned to use and develop with the Langchain library