Alex Martin

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EDUCATION

New York University   **May 2025**
B.S. in Computer Science and Studio Art Minor

WORK EXPERIENCE

Voicera · *Software Development Intern*   *Sept 2024*

- Led front-end development of product insights dashboards, improving data presentation and user interaction; Enhanced datasets and AI models, contributing to accuracy of predictive analytics features.

NYU IT High Speed Research Network · *Student Researcher*   *Jan 2022*

- Implemented python library that facilitated client-server communication with an internal pub/sub application; Utilized TLS authentication/encryption, data transfer through UDP/TCP/WS, and client unit tests.

PROJECTS

Facial Recognition App   *June 2024*

- Developed a web app using React, Typescript, and Tensorflow to analyze live webcam streams and recognize up to five faces simultaneously; Implemented real-time face detection with TensorFlow.js for fast and accurate results.

URL Shortener   *Mar 2024*

- Utilized Django and Python, creating a URL shortenening API consisting of two endpoints for URL shortenening and lengthening; Containerized using Docker, and observed using Prometheus metrics.

Unity Game   *May 2025*

- Created a Unity top-down utilizing both keyboard and mouse for player movements; player is allowed several different tools and weapons for use; consists of 3 levels, ending in a boss battle with unique attacks from other enemy types.

OpenGL Game   *July 2023*

- Created using game engine made from OpenGL library, where one avoids moving enemies in the dark, using a light source that follows the character; Utilized different classes to create the entities in the game, as well as other shading and sound effects.

Personal Website   *Jan 2022*

- Created a NextJS website with p5.js canvases in order to create and interactive and animated website; Deployed on Github Pages and renders all content client-side to reduce server burden/costs.

Air Ticket Manager   *Sept 2024*

- Developed an airline management system using Flask and Python, integrated with MySQL for handling user transactions; Implemented functionality to track flight details, passenger information, booking status, and ticket transactions.

Journal API   *Dec 2024*

- Built a Journal API that allows authors to publish manuscripts using Python and Flask, with the backend hosted on PythonAnywhere and the frontend hosted on Heroku; Utilized MongoDB to store author, manuscript, and publication details, ensuring smooth CRUD operations.

SKILLS

Languages	Python, C++, C, C#, Javascript, Typescript, Bash/Zsh, LaTeX, HTML, CSS
Tools	Linux, AWS, React, p5.js, Git, OpenGL, Unity, Godot, Django, Flask, MongoDB, MySQL

CERTIFICATIONS

AWS Cloud Practitioner   *Sept 2022*
Data Science Bootcamp   *Dec 2021*