

# HARRISON MCKENNA

Huntington, New York



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LinkedIn



GitHub

## Education

State University of New York at Albany

Aug 2021 – May 2025

Bachelor of Science in Cyber Security and Computer Science

Albany, New York

## Relevant Coursework

- Data Structures
- Intro to web technologies
- Info. Security Assurance
- Intro Database systems
- Discrete Structures
- Principles of Prog. Lang.
- Cyber Security
- Trustworthy AI
- System Fundamentals
- Intro to Networks and Systems
- Digital Project Management

## Experience

Dev Launchers

Aug 2023 – Jan 2025

Software Engineer

Remote

- Created an innovative **GPT-powered onboarding bot** to deliver essential information to new users about the Dev Launchers organization, resulting in a **48% boost** in overall user satisfaction with the organization's support services.
- Improved the chatbot utilizing Python's **OpenAI API** and **LangChain API** to effectively retrieve relevant information from a vector store database. Deployed the **Flask API** to host the bot's services, resulting in a **30% enhancement** in backend performance.
- Enhanced the user interface with **ReactJS**, **JavaScript**, **Figma**, and **Storybook**, achieving a **40% increase** in communication speed between the front-end and back-end systems.

New York ITS

March 2024 – August 2024

Software Engineer Intern

Albany, New York

- Developed a subsection of the Department of Education's HESC portal, which configures the ISTS table within the HESCWEB database. This enhancement resulted in a **20% increase** in user satisfaction with the overall page.
- Utilized front-end technologies including **JSP**, **JSF**, **HTML**, and **JavaScript**, leading to a **45% improvement** in accessibility between the front-end page and the ISTS database.
- Employed middle-tier technologies such as **Servlet**, **JSP**, and **action-based frameworks**. Back-end technologies included **SQL** with **DB2/SQL Server**, enhancing the efficiency of back-end code by **35%** for searching and updating data in the ISTS table.

New York ITS

Sep 2023 – December 2023

Student Assistant

Albany, New York

- Assisted in tabletop exercises for the Disaster Recovery (DR) team, preparing written reports to document emergency plans for organizational adherence. Contributed to the development of over **30%** of disaster recovery plans for various state departments within New York during the latter half of 2023.
- Participated in tabletop exercises simulating disasters for critical applications, enabling the effective implementation of recovery plans.
- Analyzed **100% of system specifications** to document and formalize a comprehensive recovery plan.

## Projects

Machine Learning Game | Python, Jupyter Notebook, Google Colab, Tensorflow API

March 2024 – May 2024

- Developed a game which tests a user's skill in sign language using **machine learning**.
- Trained an object detection algorithm by utilizing **Tensorflow API**.
- Used python to create a menu, game mechanics, and point system.

Adam AI | ReactJS, OpenAI, LangChain

August 2024 – December 2024

- Developed a sophisticated application enabling users to customize large language models with ease and precision.
- Designed an intuitive UI to streamline LangChain prompt creation for efficient chatbot interaction.
- Implemented a feature allowing users to upload and integrate PDF files as embeddings, enhancing the LLM's response generation.
- Introduced a secure, user-friendly interface for storing and managing conversation data, improving accessibility and organization.

## Technical Skills

**Languages:** Python, Java, HTML/CSS, JavaScript, JSON, SQL, C

**Developer Tools:** VS Code, Eclipse, IntelliJ, Google Colab, Jupyter Notebook

**Technologies/Frameworks:** Linux, GitHub, Wireshark, YOLOv8, Roboflow, Langchain, OpenAI API, Unity, Unreal Engine, Tensorflow API