

EDUCATION

St. Thomas Aquinas College (NY)

Bachelor of Science, Computer Science

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Machine Learning

Expected Graduation: May 2026

GPA: 3.7

SKILLS

Languages **Proficient:** C++ (3yrs) • Python (2yrs) • C# (2yrs) **Intermediate:** Java (1yrs) • JavaScript (1yrs) • TypeScript (1yrs)

Software AWS • React.js • Next.js • Node.js • Firebase • Vercel • OpenAI API • Langchain • TensorFlow • Jupyter Notebook • Git • SQL • Firebase/Firestore • Model Deployment

EXPERIENCE

Software Engineering Resident - Headstarter, New York, NY

09/2024 - 04-2025

- Building full stack AI projects in Python like churn prediction and brain tumor classification with neural networks and machine learning models and large language models such as Meta Llama 3.2 & Google Gemini
- Developed a full stack web application to perform multimodal RAG models over codebases using the GitHub API and Pinecone
- Deployed an stable diffusion image generation model using HuggingFace Transformers and Modal, integrated with Next.js frontend
- Collaborating with mentors for code reviews and weekly discussions, and mentored by a senior software engineer.

Software Engineer Fellow - Headstarter, New York, NY

07/2024 - 09/2024

- Built five full stack AI projects using React, TypeScript, and OpenAI API and deployed them in production environments.
- Developed a full stack web app using React, Next.js, TypeScript, and Clerk to assist users with writing documents with LLMs
- Developed collaborative workflows to enhance team-based project management and efficiency.
- Designed and presented AI solutions to senior engineers and key stakeholders for feedback.

Software Engineer - XLab Research New York, NY

09/2023 - 05/2024

- Developed a virtual reality environment using Unity with C# scripting and 3D design.
- Implemented Cinemachine to enhance camera motion and user interaction.
- Built interactive elements to improve the educational experience within the VR environment.
- Designed the XLab website to showcase projects and research.

Software Developer - Tech Innovators, Detroit, MI

02/2023 - 04/2024

- Developed task management software using Python and Java to enhance team collaboration.
- Designed and organized coding workshops, leading team discussions on key development topics.
- Created and tested software to ensure system reliability and high-performance standards.
- Implemented process automation solutions to significantly increase overall productivity.

Software Engineering Tutor - YMCA, Addis Ababa, Ethiopia

09/2019 - 06/2020

- Created foundational web development skills for high school students by teaching HTML.
- Implemented coding workshops, providing hands-on guidance on programming concepts and techniques.
- Designed engaging STEM activities that enhanced critical thinking and problem-solving skills.

PROJECTS

XLab Research Project | Team Project (~700 hours)

Sep 2023 - May 2024

- Developed a VR environment for educational research with Unity and C# scripting for interactive simulations.
- Solved intricate dynamic camera motion path issues using Cinemachine to elevate realism and engagement.

Brain Tumor Classification | Open-Source (~40 hours) - [\[GitHub\]](#)

Nov 2024 - Dec 2024

- Used neural networks in Python to classify 1000 MRI scans into 3 types of possible brain diseases with custom model architecture
- Generated multimodal MRI reports using Google Gemini API in under 200MS after image classification, construction & training

US-Bank Churn Prediction | Team Project (~30 hours) - [\[GitHub\]](#)

Sep 2024 - Oct 2024

- Used 30k+ data set, Llama 3.1b, Groq and Vercel to predict when a banking customer churns using multiple machine learning models
- Created an end-to-end solution complete with sending automated personalized email to banking customer based on feature engineering, normalization, model training, evaluating and hyperparameter tuning across 5 LLM models

Market Anomaly Detection | Solo Project (~60 hours) - [\[GitHub\]](#)

Jan 2025 - Feb 2025

- Developed multiple ML models in Python for financial crash prediction using anomaly classification across 10+ years of market data
- Engineered custom indicators, normalized features, and visualized outputs to enable early detection of crash vs. no-crash scenarios

Discord Clone - Real-Time Chat & Video | Solo Project (~120 hours) - [\[GitHub\]](#)

Mar 2025 - Apr 2025

- Built a full-stack real-time chat app with video calling using Next.js, TypeScript, WebRTC, and Socket.IO for dynamic communication
- Engineered a scalable backend with Clerk, Prisma, and MongoDB to support multi-server chat, user presence, and low-latency media streaming

Activities & Awards

Motorola Scholarship – Recipient of the prestigious scholarship for academic excellence

(Fall 2024 – Present)

Friends of Doc Schelin Scholarship – Awarded for outstanding academic achievement

(Winter 2023-Present)

St. Thomas Aquinas College, Academic Scholarship Award – Recognized for academic excellence

(Fall 2022 – Present)

ColorStack Member – Engaging with a community dedicated to increasing diversity in tech fields

(2023 – Present)

Collision Conference Attendee – Networked with founders and engineers on AI, ML, and fintech trends

(Apr 2024)