

EDUCATION

UMass Amherst | Manning College of Information and Computer Sciences

9/21 – 5/25

B.Sc. in Computer Science and Mathematics

Major GPA: 3.55/4.0

Courses Taken: Machine Learning, Artificial Intelligence, Software Engineering, Statistics, Algorithms, Data Structures (Java), Search Engines, Computer Networks, Cyber Security, Operating Systems, Computation and Language Theory, Scientific Computing, Systems Design, Linear Algebra, and Abstract Algebra

SKILLS

Analytics: Python, SQL, Pandas, Scikit-learn, MongoDB, MySQL, PostgreSQL

Programming Languages: Python, JavaScript, TypeScript, Java, C/C++, SQL

Tools & Technologies: MERN Stack, FastAPI, REST API, Git, Redis, Linux, TensorFlow, PyTorch, Tailwind CSS, OpenAI API, Cloud Computing, LLMs (Ollama, Mistral, Gemini)

EXPERIENCE

Paisabazaar Software Engineering Internship

Gurugram, India | 6/22 – 8/22

- Engineered and deployed Python and JavaScript applications for credit score management, improving efficiency by 30%.
- Optimized REST APIs for Redis and MySQL, cutting customer endpoint response time by 20%.
- Architected a secure authentication system, enhancing user profile management and security.

Undergraduate Research Volunteer

Amherst, MA | 12/22 – 1/23

- Conducted network traffic data analysis and synthetic data generation using Generative Adversarial Networks (GANs).
- Developed and evaluated multiple synthetic data types, optimizing realism while maintaining privacy.
- Applied anomaly detection techniques to enhance network security and threat mitigation.
- Visualized network traffic trends through Matplotlib, improving data interpretability for security applications.

PROJECTS

Authentify - Selfled ML Project

- Built React/FastAPI web app using AI (Ollama/Mistral/Gemini) to verify product authenticity
- Implemented responsive UI with React Hooks and modern CSS, supporting real-time product analysis
- Engineered RESTful APIs for multi-modal verification (URL/text/image) with error handling
- Designed a scalable architecture supporting future B2B integrations and mobile expansion

Tech Stack: React, FastAPI, Python, LLMs (Ollama/Mistral), Google Gemini API, REST APIs, Modern CSS, Git, Pytorch

ClassCompass - Team Lead and Full Stack Developer

- Spearheaded the development of a full-stack MERN application to streamline course management and improve access
- Led an 8-member development team from ideation to deployment, assigning responsibilities and managing Git-based workflows to ensure timely sprints and feature integration.

Tech Stack: React, FastAPI, Python, REST APIs, Modern CSS, Git

Vettly - Selfled ML Project

- Built an AI-driven career platform to streamline resume analysis, company insights, and interview prep.
- Developed a microservices backend with secure auth, resume versioning, and OpenAI-powered job matching.
- Integrated PostgreSQL and MongoDB for hybrid data storage, and connected third-party APIs for real-time research.
- Designed analytics to track user success and platform impact.

Tech Stack: React, TypeScript, Node.js, Express, PostgreSQL, MongoDB, OpenAI API, Tailwind CS