Cristian Vasu

Software Engineer | AI/ML Researcher | Full-Stack Developer

330-206-8980 | cristian@cristianvasu.com | linkedin.com/cvasu | github.com/cvasu33

EDUCATION

Bowling Green State University   Bowling Green, OH
Master of Science in Computer Science – GPA: 3.75   *Aug. 2024 – Dec. 2025*
- **Relevant Coursework:** Algorithm Design, AI for Software Engineering, Network Architecture, Computer & Network Security, Secure Software Engineering, Big Data Analytics

University of Mount Union   Alliance, OH
Bachelor of Science in Computer Science & Bachelor of Science in Financial Mathematics   *Aug. 2019 – May 2023*
- **Relevant Coursework:** Software Engineering, Web & Mobile Development, Data Structures, Database Systems

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL *(Advanced)* | Java, C, HTML/CSS, Bash *(Proficient)*
Front-end: React, Angular, Tailwind CSS, Vite, Leaflet | **Back-end:** Node.js, Express, Flask, REST APIs
Databases & Cloud: MongoDB Atlas, PostgreSQL, AWS (S3, Lambda), Docker
AI/ML & Data Science: OpenAI API, Mistral AI, LangChain, RAG, pandas, NumPy, SciPy

PROJECTS

AI Pull Request Research | *Python, OpenAI API, GitHub API*   Master's Thesis – 2025
- Engineering a **GitHub** application that uses the **OpenAI API** to automatically generate PR Descriptions
- Architecting a unified ingestion pipeline that combines issue links, code diffs, commit messages, and file metadata into an **agentic LLM-driven RAG framework**
- Applying **input filtering** to increase efficiency and improve quality of generations

Travel Health Advisor | *React, Mistral AI, MongoDB, Tailwind, Vite*   BGSUHacks – 2025
- Architected a travel health platform that provides tailored medical guidance to users via an AI-powered advisor; **Awarded 1st place in AI/ML track**
- Dynamically retrieved disease data based on user input from a **MongoDB Atlas** database initiated by user interaction with a Leaflet-based interactive map
- The **Mistral AI** integrated chatbot utilized user health data to provide personalized feedback presented through a **responsive interface** that delivers an **intuitive experience**

RocketGrades LMS | *Angular, TailwindCSS, Node.js, AWS S3, Auth0, Mistral AI, MongoDB* RocketHacks – 2025
- Created a web-based Learning Management System that autogrades using **LangChain** with **Mistral AI Awarded 1st place in Auth0 track**
- Implemented **Auth0** for secure, role-based access control, protecting data privacy for users
- Integrated **AWS S3** and **MongoDB Atlas** for scalable file storage and real-time data retrieval

PROFESSIONAL EXPERIENCE

Software Engineering Intern   Jun. 2020 – Aug. 2020
Alliance for Children & Families   *Alliance, OH*
- Architected a website that provided health and wellness information to a community of over **20,000** individuals
- Collaborated with team members to gather user feedback and make iterative improvements to the website's features and functionality
- Tested and **debugged** code to ensure functionality and performance met quality standards prior to deployment

Real-Estate Technology Consultant   Jun. 2018 – Present
Horizon Investments   *Alliance, OH*
- Developed **Excel dashboards** using **VBA macros** to track renovation costs and **projected ROI** for properties
- Performed **demolition, cleaning, landscaping**, and **installations** to fully renovate properties

Mathematics and Statistics Tutor   Dec. 2024 – Present
BGSU Learning Commons   *Bowling Green, OH*
- Assisted students with math and statistics concepts, fostering **problem-solving** and independent learning skills
- Led **8-10 weekly sessions** across calculus, algebra, and statistics, helping tutees **lift exam scores 1 letter grade** on average