

MD HAMIM MAHDIE

Hartford, CT | hamimmahdie2@gmail.com | (860) 380-6698 | hamimmahdie.vercel.app | linkedin.com/in/hamimmahdie/ | github.com/HamimMahdie

EDUCATION

Trinity College, CT, USA

Expected Graduation: May 2026

B.S. in Computer Science & Economics

- Davis United World College Scholar, Faculty Academic **Honors**
- Coursework: Data Structure & Algorithms (**Python, Java**), Software Design (**Spring Boot, JUnit Testing**), Cloud Architecture (**Docker, Kubernetes, GCP**), Scalable System Design (**Git, Distributed Systems**), Data Analytics (**Python, SQL**), Statistics, Discrete Mathematics

SKILLS

- Programming Languages: Python, Java, SQL, JavaScript, Swift, R, MATLAB
- Cloud & DevOps: Google Cloud, Docker, Kubernetes, GitHub Actions, REST APIs, Flask, SpringBoot, Agile (Scrum)
- Data Tools: PowerBI, PyTorch, TensorFlow, Keras, Scikit-learn, ANNs, Vertex AI, Hugging Face, matplotlib, Colab
- Miscellaneous: MySQL, Firebase, MongoDB, React, Node.js, Typescript, Git, Linux (ubuntu), Streamlit, GUI development

EXPERIENCE

AI Software Engineering Intern

July 2024- August 2024

Radical AI – Remote

- Collaborated with **cross-functional** teams to design **Proof of Concept (PoC) NLP** solutions, aligning system architecture with company needs, which improved processing efficiency by 25%
- Developed structured data loaders (CSV, XLS, JSON, XML) using **Chain-of-Thought** prompting to enhance document comprehension and extraction by **15%**
- Led development of a workflow system integrating Google **Speech-to-Text API** with NLP via **Gemini Pro**; Automated transcription and analysis of audio files for enhanced user accessibility

Machine Learning Research Assistant

May 2024- July 2024

Trinity College – Hartford, CT

- Designed and evaluated ANNs in **TensorFlow** and **Keras**, experimenting with Dense, Dropout, and BatchNormalization
- Conducted 200+ **fraud** detection trials with **GridSearchCV**, achieving AUC of **0.912** and improving recall by **32%**
- Applied **Lasso Regression** with **Random Forest** to prevent overfitting; Achieved a **90%** accuracy rate with optimized precision-recall balance, including **97% precision** and **88% recall** for the majority class

IT Consultant

January 2024 - Present

Trinity Library and IT Services - Hartford, CT

- Delivered **technical support** on 70+ **Halo ITSM** tickets weekly, diagnosing and resolving software and network issues for end-users with an **85%** first-contact resolution rate; Learned IT Security protocols (**SSL/TLS, MFA, VPNs**)
- Streamlined access-control cycles using **Active Directory** and Microsoft **Azure**, reducing authentication issues by **30%**

PROJECTS

ForEx Rates Predictor [Distributed Systems]

[GitHub](#)

- Built a **cloud-native** web app for real-time exchange rate predictions using **Docker, Kubernetes**, and **Google Cloud**
- Implemented a **microservices** architecture using **REST APIs** (UI, API Gateway, **LSTM** prediction service, data storage)
- Implemented automated testing and **CI/CD pipelines** for Docker builds, **container** orchestration, and **API** testing, which saved **60+** developer hours

Quizify AI [Generative AI]

[GitHub](#)

- Built a context-driven quiz app using **Langchain, Gemini-Pro & Vertex AI** to enhance personalized learning solutions
- Enhanced data retrieval and **processing efficiency** by 25% through advanced **ChromaDB** query optimization
- Designed an intuitive **GUI** with **Streamlit** for simpler design, improving **UI/UX** and reducing cognitive load on users

Food Pantry Scheduler [Open Source/Open Core]

[GitHub](#)

- Spearheaded development of a **Flask**-based pantry management solution, integrating user **authentication**, admin **dashboards** & a simple **HTML/CSS** front-end to streamline **nonprofit operations**
- Led client-facing **Agile sprints** to deliver incremental product updates, ensuring the alignment of solutions with evolving requirements (e.g., **email** alerts using **SMTP API**), which resulted in a **95%** client satisfaction score

LEADERSHIP & HONORS

- **Tech Educator, JAAGO**: Taught computer literacy and outsourcing courses to **500+** marginalized students
- **Writing Associate**: Coached clients on academic writing at Trinity, local high schools, Hartford Correctional Facility
- **Resident Advisor**: Led **10+** community-building exercises, fostering **DEI** and increasing resident engagement by **40%**
- **Senator**, Student Government: Advocated for **campus** initiatives, driving **3** policy changes improving dining experience