

VISHO MALLA OLI

(662) 380 4229 | vmallao@go.olemiss.edu

Experience Summary

Honors Junior at UM with 2 years of experience in data mining, frontend, backend, and AI integration, with a focus on AI SaaS applications. Successfully developed and deployed multiple full-stack applications and AI-powered solutions. Proficient in building scalable, user-centric platforms that address real-world problems efficiently.

Education

Bachelor of Science: Computer Science

Expected in 05/2026

University of Mississippi

University, MS

- **Emphasis:** Data Science | **Minors:** Mathematics | 2022/23 - Chancellor's Honor Roll | 3.75 GPA | Honors Junior
- **Involvement:** MC NEPSA 2023 | Public Relation Officer NEPSA 2024 | International Merit Scholarship Recipient | Valedictorian Scholarship Recipient
- **Relevant Coursework:** Data Mining, Trustworthy ML, Statistics, Data Structures and Algorithms, Object Oriented Programming & Software Engineering.

Skills

- **Languages:** Python, Java, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++, MongoDB, PostgreSQL
- **Automated Testing:** JUnit, PyTest
- **Software, Cloud, & Tools:** Git/GitHub, Tableau, AWS, Google Cloud, Azure, Figma, Excel, Word
- **Libraries, Frameworks & APIs:** TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, Transformers, SciPy, OpenAI API, REST API
- **Statistical Analysis & Experimentation:** Machine Learning, Data Visualization, Exploratory Data Analysis, Hypothesis Testing, Adversarial Training, A/B Testing

Experience

Teaching Assistant - CSCI 111/211/256

08/2024 to Current

University of Mississippi

University, MS

- Led Python and Java labs, focusing on debugging, algorithm optimization, and data structures, contributing to a **10% increase in assignment completion rates**.
- Guided students in algorithm design, coding practices, and exam preparation during office hours and virtual sessions.
- Applied academic integrity protocols during exams to ensure **100% adherence to university standards**

Summer Camp Coding Intern

05/2024 to Current

Delta Health Alliance (DHA)

Stoneville, MS

- Guided students through Code.org Python/AI/ML during Camp 2.0, contributing to a **15% increase in enrollment** compared to the previous year.
- Created interactive projects like "Guess the Number", leading to a **25% improvement in retention rates**, with more students completing the camp than in previous sessions.

Software Engineering Fellow

07/2024 to 09/2024

Headstarter AI

- Used Next.js, Firebase, OpenAI, and Stripe to develop an AI Flashcards SaaS platform, aiming for **1,000+ user acquisition**.
- Built an AI-powered customer support chatbot leveraging OpenAI API and Pinecone with RAG and multi-language support, enhancing user satisfaction.
- Designed a personal portfolio website to showcase projects.

Activities and Honors

uArch 2024 Full Grant Recipient, Buenos Aires, Argentina

Participant, June 2024

- Received a full grant for international travel and participation in the uArch workshop and ISCA conference in Buenos Aires.
- Recognized for academic achievements and potential contributions to computer architecture and engineering.

Robotics Competition Judge – Oxford High School

Judge, May 2024

- Served as a judge at the VEX Robotics Tournament 2024, conducting interviews on technical skill, innovation, and teamwork.
- Applied rigorous criteria to evaluate and determine winners across multiple award categories.

Projects

Personal Portfolio Website – vishomallaoli.com

Oct, 2024 - Present

- Designed and developed a personal website to showcase projects, achievements, and technical skills.
- Integrated a chatbot assistant for real-time user interaction, improving visitor engagement by **20%**.
- Built using **Next.js** and **TailwindCSS**, deployed on **Vercel** for optimal performance and scalability.
- Utilized modern UI/UX principles to create a professional and user-friendly interface.

DiaDetect – Machine Learning Model for Diabetes Detection

Sep 2024 – Present

- Developed a machine learning model trained to detect diabetes, addressing the need for early diagnosis and health monitoring.
- Utilized **Random Forest** and **SVM** for predictive analysis, achieving an **85% accuracy rate** on test data.
- Preprocessed large datasets, including patient health data, to ensure high-quality training inputs and improve model performance.
- Optimized model performance, reducing false positives by **10%**, and ensuring scalability for future use in healthcare applications.

EcoGuard – AI-Powered Waste Management Platform (HackHarvard 2024)

Oct 11, 2024 - Oct 13, 2024

- Developed an AI-driven platform to streamline waste reporting and collection, resulting in a **50% increase in community participation** during initial testing at Harvard University.
- Built with Next.js, Drizzle ORM, TailwindCSS, Google Gemini AI, and Web3Auth, targeting **50+ active users** to promote sustainability and incentivize eco-friendly practices, initiative taken over linkedin.

Website, Portfolio

Website: www.vishomallaoli.com

Github: www.github.com/vishomallaoli

LinkedIn: www.linkedin.com/in/vishomallaoli/