

SUSHANT ARYAL

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Summary

Highly motivated Computer Science and Mathematics junior with hands-on experience in full-stack development and AI applications. Demonstrated ability to build responsive web applications and mobile solutions using modern technologies.

Education

University of Southern Mississippi

Aug. 2023 – Dec 2026

Bachelor of Science in Computer Science, Mathematics

Hattiesburg, MS

Technical Skills

Languages: Python, Typescript, C++, HTML/CSS, JavaScript, SQL, MySQL

Developer Tools: React, React Native, AWS, MongoDB, Git

Technologies/Frameworks: Linux, Express, GitHub, Node, Clerk

Experience

FinancialNotices

November 2022 – August 2023

Junior Web Developer

Kathmandu, Nepal

- Developed responsive landing pages using HTML, CSS, and JavaScript, increasing conversion by 30 percent.
- Implemented interactive components with React, improving user engagement and streamlining front-end performance

University of Southern Mississippi

July 2024 – Present

Resident Assistant

Hattiesburg, Mississippi

- Leading a team of 40+ students in fostering a positive living environment, enhancing communication and conflict resolution skills applicable to team-based projects.
- Organized and facilitated events promoting community engagement, demonstrating project management abilities and leadership in coordinating multiple activities.

Projects

Brot AI | *React.js, Node.js, MongoDB, Express.js*

- Engineered a full-stack conversational AI platform with React for the frontend, Node.js/Express for backend APIs, and MongoDB for chat data storage and retrieval.
- Integrated Google Gemini API for AI responses and Clerk for secure user authentication, delivering real-time, Gen Z lingo-infused chat experiences.

Flushbuddy: Public Bathroom Locator | *React Native, Typescript, Google Maps API*

- Developed a cross platform mobile application (iOS, Android, Web) using React Native Expo and Typescript to help users locate and guides them nearest public bathroom around the University of Southern Mississippi
- Integrated Google Maps API for real-time navigation, Docker Container for data storage
- Awarded Checkpoint Fund to work on the project by the Hatchery at Southern Miss.

Samantha: AI Virtual Assistant | *React, OpenAI*

- Developed a smart virtual assistant that integrates multiple calendars (Google, Outlook, etc.) and utilizes generative AI to automate schedule updates, earning 2nd Runner-Up at Hatchathon 2024.
- Leveraged a modern tech stack including React, Flask, Kubernetes, Pinecone vector database, OpenAI API, and Azure Authentication to create a scalable, interactive chatbot interface for personalized user assistance.

Video Game Dashboard | *C#, .net MAUI, SQL*

- Developed an app using C# and a cross-platform GUI framework, featuring character customization and stat-based gameplay mechanics using Object Oriented Programming
- Integrated a SQL database for persistent data storage, managing player progress, avatar configurations, etc.

Volunteering/Extracurricular

Open Source AI Agent Developer

January 2025 – Present

Klover AI

Remote

- Developed autonomous AI agents using Python, OpenAI API, and LangChain framework, implementing machine learning techniques to enhance chain-of-thought reasoning.