

# 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

*Bachelor of Science in Computer Science, Mathematics*

**Aug. 2023 – Dec 2026**

*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

### 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.

### 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

## Projects

### Druglytics (Hacklytics 2025) | *Python, Streamlit, AWS, Cloudflare, Flask*

- Developed a GenAI-powered healthcare application that analyzes potential drug-drug interactions and allergic reactions using a dataset of 300K+ drug interactions.
- Implemented AI-generated video explanations and text summaries using Google Gemini and OpenAI, translating complex medical data into simple, animated explanations.
- Built a multi-agent system with MongoDB Atlas for data storage, Cloudflare R2 for cloud storage, and deployed on AWS EC2, optimizing database queries for real-time search capabilities.

### Swiped-In: AI-Powered Hiring Platform | *Next.js, Node.js, MongoDB, Google Gemini*

- Built an innovative hiring platform at HackNYU 2025 that streamlines job searching using a dating app-inspired interface, allowing candidates and recruiters to match through mutual interest.
- Implemented AI-powered features using Google Gemini 1.5 and ElevenLabs for automated profile generation, job matching, and interactive screening interviews, reducing hiring process friction.
- Developed full-stack application using Next.js, Node.js, MongoDB Atlas, and TailwindCSS, completing the entire project from concept to deployment in 18 hours.

### 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.

## Leadership

### 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.