

SUSHANT ARYAL

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Linkedin



Github



Portfolio

Summary

Computer Science junior with hands-on experience in Full-Stack Development and Machine Learning. Skilled in building softwares using React, NodeJS, C++, and SQL. Experienced in building forecasting and price optimization models using Python, ScikitLearn and TensorFlow.

Education

University of Southern Mississippi

Aug. 2023 – May 2027

Bachelor of Science in Computer Science, Mathematics

Hattiesburg, MS

– Relevant Coursework: Machine Learning, Linear Programming, Data Analysis, Probability, Statistics

Technical Skills

Python, Javascript, C++, AWS, Clerk, Express, Git, GitHub, HTML/CSS, Linux, MongoDB, MySQL, Node, React, React Native, SQL, Tensorflow, TypeScript

Experience

AI & Machine Learning Fellow

May 2025 – Present

BreakThroughTech, Cornell Tech

Remote

- Selected to participate in the BreakThroughTech AI fellowship program hosted by Cornell Tech.
- Completed immersive coursework and collaborated with partner companies on real-world ML projects.

Software & Data Science Intern

May 2025 – Present

Delta Health Alliance

Greenwood, Mississippi

- Worked to enhance the User Experience and Loading Times for Employee Onboarding Software
- Wrote SQL Queries to extract insights from large datasets
- Created Full Curriculum for DHA's Summer Coding Bootcamp

Web Development Intern

Nov. 2022 – Aug. 2023

FinancialNotices

Kathmandu, Nepal

- Designed and deployed dynamic, responsive web pages using HTML, CSS, and JavaScript.
- Built interactive React components to streamline UI/UX and reduce page latency across devices.
- Contributed to SEO optimization and frontend code refactoring for improved performance and readability.

Projects

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

- Developed a GenAI-powered app that analyzes drug interactions and allergies using a dataset of 300K+ interactions.
- Used Google Gemini and OpenAI to generate video explanations and animated summaries of medical information.
- Built multi-agent system with MongoDB Atlas, Cloudflare R2 and deployed on AWS EC2.

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

- Built a hiring platform at HackNYU 2025 inspired by dating apps to match job seekers and recruiters.
- Implemented profile generation, job matching, and AI interviews using Gemini and ElevenLabs.
- Developed full-stack MVP using TailwindCSS and deployed within 18 hours.

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

- Built a full-stack conversational AI platform with React frontend and Express backend.
- Integrated Google Gemini API for AI responses and Clerk for secure user login.

Multimodal Home Insurance Fraud Detection | Python, Tensorflow, OpenAI, Numpy

- Built a multimodal system using CNNs and GPT to detect image manipulation and fake text in insurance claims.
- Assigned legitimacy scores (0-5) based on both image and text input.
- Won 1st place and \$2500 at Golden Idea Pitch Competition.

Leadership

University of Southern Mississippi

May 2025 – Present

Senior Resident Assistant

Hattiesburg, Mississippi

- Direct supervisor for 12 Resident Assistants and 10 Desk Assistants.
- Promoted from Desk Assistant (2024) to RA (July 2024) to SRA (May 2025).