

Sakshyam Sigdel

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EDUCATION

University of Southern Mississippi
Bachelor of Science in Computer Engineering

Hattiesburg, MS
Expected Graduation: 2027

PROJECTS

SenseNav | *Arduino, Ultrasound, MiDaS, Suno AI*

HackMIT – Sept. 2025

- Built an assistive navigation prototype for visually impaired users combining haptic feedback and spatialized audio.
- Integrated ultrasound sensors with monocular depth estimation to reconstruct spatial soundscapes.
- Selected as a top 12 project out of 320+ teams for innovative hardware-software integration.

Acroswe | *Python, Pandas, Ethereum, Solidity*

HackPrinceton (MLH) Spring 2025 – Winner

- Won "Best Use of AI and Blockchain" at Major League Hacking (MLH) HackPrinceton.
- Built a heuristic-based ML model to estimate property values based on dynamic market parameters.
- Implemented smart contracts on the Ethereum blockchain to facilitate transparent and secure asset transfers.

Richie Rich | *React, Python, OpenAI, Fintech APIs*

HackPrinceton (MLH) Fall 2025

- Developed an AI-powered financial literacy assistant that gamifies personal budgeting for students.
- Integrated Large Language Models (LLMs) to provide real-time, personalized investment advice and expense tracking.
- Designed a responsive dashboard to visualize spending habits and savings goals effectively.

Disability Different Ability | *CAD, C++, Servo Motors*

Guild Team Project – 2023

- Designed and programmed a smart cane providing haptic and sonic environmental feedback.
- Enhanced a CAD-based prosthetic arm design with servo motors and microcontrollers.
- Implemented software to analyze sensor data and dynamically calculate finger movements.

EXPERIENCE

Math Learning Assistant (LA)

Aug. 2024 – Present

University of Southern Mississippi

Hattiesburg, MS

- Tutored students in college-level mathematics, facilitating active learning during lectures.
- Collaborated with faculty to grade assignments and lead supplemental instruction sessions.

TECHNICAL & SOFT SKILLS

Languages: Python, C++, JavaScript, Bash, Rust, Go, Lua, SQL, Assembly

Frameworks: React, Node.js, Flask, FastAPI, TensorFlow, Pandas, NumPy

Tools: Linux, Git, Docker, Vim/Neovim, CI/CD

Soft Skills: Leadership (Ex-President of Trinity Sci-Tech Guild), Problem-Solving, Teamwork, Adaptability

HONORS

Voxo Hackathon Winner

Nov. 2025

Awarded \$1,000 Grand Prize for technical excellence

Hack@Davidson (MLH) Winner

Feb. 2025

2nd Overall at Major League Hacking event (Davidson College, NJ)

HackPrinceton (MLH) Winner

Spring 2025

Solo Winner – Best use of AI and Blockchain (Verbwire)

USM President's List

Spring 2024

Awarded to students with a 4.0 GPA