

# 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.

### HypDrDrover | *Rust, Winit, Hyprland Protocol*

Personal Project - 2025

- Developed a workspace manager for the Hyprland Wayland compositor, written entirely in Rust.
- Utilized the Hyprland IPC and Winit library to manage and display active windows across workspaces.
- Implemented an efficient, minimal-overhead solution, optimizing performance by leveraging Rust's ownership model.

## 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, and entrepreneurial 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*