

Rabindra Giri

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EDUCATION

The University of Southern Mississippi

Bachelor of Science in Computer Science

Hattiesburg, MS

Cumulative GPA: 4.0

- Relevant Coursework: Data Structure & Algorithm, DBMS, Operating Systems, Software Engineering, Secure Software Development, Probability & Statistics, Web Development

SKILLS

Languages: Python, TypeScript, SQL, C#, C++, JavaScript

Frameworks/Libraries: React, Node.js, Express, .NET MAUI, Tailwind CSS, Next.js, NumPy, Matplotlib, Pandas

Databases/ORM: PostgreSQL, Prisma, SQLite

Cloud/DevOps & Tools: Docker, Git/GitHub, Azure, Firebase, GitHub Actions, Jest, Redis, Clerk (OAuth), WordPress (SNO)

EXPERIENCE

Web Developer (JavaScript, PHP, WordPress/SNO)

May 2025 – Present

Roy Howard Community Journalism Center

- Built & deployed an SNO-compatible republication tracker (**30 min** → **30 sec**) and integrated OpenAI-powered story summaries to boost engagement and speed editorial workflow.
- Shipped mobile-first UX and content modules (event calendar, speaker bios, media carousels); launched and maintained **10+** pages, improving Core Web Vitals and overall usability.

Undergraduate Researcher (Python, NumPy, Pandas)

Jan 2025 – Present

The University of Southern Mississippi

- Support research on **AI privacy and networked systems** for healthcare and energy trading: literature reviews, technical briefs, and lab presentations.
- Reproduce baselines and prototype** Python workflows; maintain reproducible environments and experiment documentation.

PROJECTS

Agent Engine — Multi-Agent Social Simulation Platform | Next.js, React, Express, FastAPI, Prisma

Full Stack / AI Systems Developer

- Built a full-stack microservice ecosystem (Next.js frontend, Express APIs, FastAPI AI services) where 7 autonomous agents post, comment, and react using OCEAN personality modeling.
- Integrated AI for contextual decision-making, built asynchronous pipelines with FastAPI + HTTPx for 7× faster reasoning throughput, and designed a real-time social feed with Prisma ORM and REST APIs.

Rentora — Peer-to-Peer Rental Platform | TypeScript, React Native, Express, Stripe

Founder / Lead Software Developer | <https://github.com/yelishgiri/rentora-demo>

- Built a **cross-platform rental app** with modular Jamstack architecture, enabling faster development and scalability.
- Designed category-based search and reusable UI components, and integrated **Stripe** for secure transactions and user verification.

Honors and Awards

- LendIt - USM Golden Idea Pitch Competition Finalist:** Selected as one of the top 8 finalists out of 50+ teams for presenting an innovative solution to a panel of industry experts.
- USM Academic Excellence and First Year Housing Scholarship and President's List (4X):** Awarded for maintaining a 4.0 GPA throughout all semesters at USM.