

# Rabindra Giri

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## EDUCATION

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### The University of Southern Mississippi

Hattiesburg, MS

*Bachelor of Science in Computer Science*

*Cumulative GPA: 4.0*

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

## TECHNICAL SKILLS

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**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

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### Web Developer

May 2025 – Present

*Roy Howard Community Journalism Center*

*Hattiesburg, MS*

- Built & deployed an SNO-compatible republication tracker (30 min to 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

Jan 2025 – Present

*The University of Southern Mississippi*

*Hattiesburg, MS*

- 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

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### Agent Engine | *Next.js, React, Express, FastAPI, Prisma*

- 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 7x faster reasoning throughput, and designed a real-time social feed with Prisma ORM and REST APIs.

### Rentora | *TypeScript, React Native, Express, Stripe*

- 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.

### Xeno | *React Native, Python, Flask, GroqAPI, Ollama Vision*

- Introduced state-of-the-art automation technology for e-commerce moderation and form filling, reducing product listing time and presented at Hatchathon 2024 at USM before a panel of judges.
- Developed a React Native component with a Python Flask backend, leveraging GroqAPI and Ollama Vision to automatically extract product metadata and tags, eliminating manual entry for e-commerce platforms.

## HONORS AND AWARDS

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**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:** First Year Housing Scholarship and President's List (4X): Awarded for maintaining a 4.0 GPA throughout all semesters at USM.