SAMYAM BHATTARAI

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EDUCATION

University of Louisiana at Monroe (ULM)   **August 2022 – December 2026**
Bachelor of Computer Science   *Monroe, LA*
- **Relevant Courses:** Data Structures, Algorithms, Computer Architecture, Object-Oriented Programming, Operating Systems

PROJECTS

Splitz — Multi-user Expense Tracker with Settlements and Notifications   *[Link to website]*
Tech Stack: Next.js, TypeScript, Convex, Clerk, Resend Email API
- Created an application with type safety, reusable UI components, and backend queries, achieving **zero ESLint errors**.
- Improved database performance by designing **8 indexes**, optimizing processing speed and query response time by **20%**.
- Implemented **5+ services** for authentication, real-time synchronization, and automated emails, forming the app's core multi-user functionality.

ShopSphere — E-commerce platform with Payment Systems and Admin Panel   *[Link to website]*
Tech Stack: React.js, Node.js, Express, MongoDB, Mongoose, Stripe
- Developed **15+ REST API endpoints** with **JWT**, role-based access, and input validation, preventing unauthorized access.
- Configured **10+ dynamic routes** using **Context API** for state management and user navigation, reducing page reloads.
- Integrated **Stripe** for payments and sped up image uploads with **Multer and Cloudinary**, lowering upload time by **30–40%**.

Elevatepath — AI-based platform for Resume, Cover Letters, and Interview Preparation   *[Link to website]*
Tech Stack: Next.js, Prisma ORM, PostgreSQL, Clerk, Google Gemini AI
- Built full-stack app optimized for performance, achieving a **98+ Lighthouse score** and page load time **under 1 second**.
- Managed **5 database models** and **2 schema migrations**, mitigating schema errors and strengthening data integrity.
- Scheduled weekly background jobs via **Inngest** to update **3 reactive dashboards**, eliminating manual data updates.

NoteGenius — AI study assistant that turns PDFs into instant notes   *[Link to website]*
Tech Stack: Next.js, LangChain, Convex, Google Gemini AI, Clerk
- Applied **Google Gemini AI** embeddings to cut data retrieval time averaging **0.75 seconds**, enhancing search performance.
- Streamlined document processing using **LangChain**, minimizing PDF parsing time to **less than 2 seconds** for each file.
- Deployed **Convex** with metadata filtering, enabling near-instant search with **0.25s latency** and **99% accuracy**.

LEADERSHIP

Association for Computing Machinery   **September 2023 – Present**
Treasurer   *University of Louisiana at Monroe*
- Coordinated with **15+ members** across organizations, achieving **20+ more members** participating than the previous year.
- Directed budgets for events with **100+ participants**, overseeing expenses and venues, saving **5 days of reconciliation**.
- Led workshops and hackathons, mentored peers; increased the number of events by **15% compared to last year**.

EXPERIENCE

Office of Student and Professional Affairs, College of Pharmacy   **February 2023 - August 2023**
Student Administrative Assistant   *Monroe, LA*
- Facilitated **15 to 20 daily student interactions**, reducing scheduling delays and maximizing workflow efficiency.
- Oversaw **20-30 calls and emails weekly**, maintaining accurate communication and prioritizing tasks.
- Organized **40+ documents monthly**, enforcing data management to enhance accessibility and confidentiality.

SKILLS

Languages & Databases: JavaScript, TypeScript, Python, Java, HTML, CSS, SQL, MongoDB
Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, PyTorch
Tools & Platforms: Git, GitHub, Linux, Postman, Figma, Docker