

SAMYAM BHATTARAI

Monroe, LA

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EDUCATION

University of Louisiana at Monroe (ULM)

August 2022 – May 2026

Bachelor of Computer Science

Monroe, LA

- **GPA:** 3.538 / 4.0
- **Relevant Courses:** Mathematics, Data Structures and Algorithms, Computer Architecture, Assembly Language, Object-Oriented Programming, Internet Programming, Operating Systems

PROJECTS

Splitz — Multi-User Expense Tracker with Smart Expense Settling and Automated Notifications [\[Link to website\]](#)

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Convex, Clerk, Resend Email API

- Built a full-stack app with 100% TypeScript strict mode and zero ESLint errors, ensuring a pristine codebase across 60+ files.
- Designed 8 database indexes for faster parallel processing, boosting multi-user balance query performance.
- Integrated 5+ services for secure authentication, real-time sync, and automated emails, powering real-time expense tracking and analytics.

ShopSphere — E-commerce platform with structured admin panel and integrated payment system [\[Link to website\]](#)

Tech Stack: React.js, Vite, JavaScript, Tailwind CSS, Node.js, Express, MongoDB, Mongoose

- Implemented 15+ REST API endpoints with JWT, role-based access, and input validation to strengthen security.
- Developed 10+ parameterized routes and applied Context API for efficient state management and seamless user navigation.
- Deployed Stripe and managed 100+ image uploads via Multer and Cloudinary, streamlining payment and media processes.

Elevatepath — AI-powered platform for resume, cover letters, and interview preparation [\[Link to website\]](#)

Tech Stack: Next.js, React, Tailwind CSS, Prisma ORM, PostgreSQL, Clerk, Google Gemini AI

- Launched full-stack app optimized for performance, achieving a 98+ Lighthouse score and sub-second load times.
- Administered 5 Prisma ORM models and incorporated 2 PostgreSQL migrations, guaranteeing schema integrity.
- Automated weekly background jobs via Inngest, powering 3 reactive dashboards, eliminating manual data updates.

NoteGenius — AI study assistant that turns PDFs into instant notes [\[Link to website\]](#)

Tech Stack: Next.js, React, JavaScript, Tailwind CSS, Convex, Google Gemini AI, LangChain, Clerk

- Applied Google Gemini AI embeddings to reduce data retrieval time to 0.26 seconds, significantly improving search efficiency.
- Accelerated document processing using LangChain, cutting PDF parsing time to 1.76 seconds per file.
- Integrated Convex with metadata filtering to support seamless sessions with 0.10s latency and 99% query accuracy.

LEADERSHIP

Association for Computing Machinery

September 2023 – Present

Treasurer

University of Louisiana at Monroe

- Coordinated with 20+ members across organizations to align finances, facilitating successful event execution.
- Directed budgets for multiple hackathons with a combined 100+ participants, delivering all events on time and within budget.
- Led multiple events totaling 200+ students, optimized funds with precise tracking, delivered strong engagement and efficiency.

EXPERIENCE

Office of Student and Professional Affairs, College of Pharmacy

February 2023 - August 2023

Student Administrative Assistant

Monroe, LA

- Oversaw 20+ daily inquiries promptly, streamlined communication, eliminated delays, and ensured seamless service flow.
- Articulated precise responses to frequent inquiries, ensured clarity, increased trust, and strengthened customer satisfaction.
- Orchestrated efficient prioritization of interactions, accelerating response times and maximizing overall service efficiency.

SKILLS

Languages & Databases: JavaScript, TypeScript, Python, Java, HTML, CSS, SQL, MongoDB

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Angular, Vue, PyTorch

Tools & Platforms: Git, GitHub, Linux, Postman, WordPress, Figma, Docker