

# SAMYAM BHATTARAI

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## EDUCATION

University of Louisiana at Monroe (ULM)

August 2022 – May 2026

Bachelor of Computer Science

Monroe, LA

- **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 flawless quality 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 synchronization, and automated emails, powering real-time expense tracking and analytics.

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

**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