

# ADHIK ADHIKARI

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## Education

### University of Louisiana at Monroe

Aug. 2023 – May 2027

*B.S. Computer Science | Minor in Mathematics GPA: 3.91/4.00*

Monroe, LA

- **Achievements:** Honors, President's List **Coursework:** Object-Oriented Design & Programming, Data Structures & Algorithms, Database Systems, Operating Systems

## Experience

### Epic Can

Jun. 2025 – Aug. 2025

*Software Engineering Intern*

Shreveport, LA

- Saved **15 hours/week** of manual logging by designing and building a full-stack inventory management system using **object-oriented** principles in **JavaScript, React, Node.js, and PostgreSQL**, translating warehouse manager requirements into a production system that replaced spreadsheet tracking across factory operations.
- Engineered a **Node.js/Express REST API** backed by **PostgreSQL** to handle **5,000+ active SKUs** daily with full audit logging, eliminating manual data reconciliation; accelerated receiving by **40%** via a mobile-responsive barcode scanning feature for warehouse tablets.
- Cut deployment time by **30%** by establishing a **CI/CD pipeline** with **GitHub Actions** and **Docker** on **AWS** within an **Agile** workflow; secured critical operations with **JWT authentication** and **RBAC** restricting high-risk actions to authorized managers.

### University of Louisiana at Monroe

May 2026 – Present

*Information Technology Support Analyst*

Monroe, LA

- Provided Tier 1 and Tier 2 technical support to faculty, staff, and students, resolving hardware, software, and network issues across **Windows and macOS** environments with consistently fast resolution times.
- Diagnosed **50+ support tickets/week** via the university's IT ticketing system; configured and deployed workstations, managed **Active Directory** accounts, and assisted in troubleshooting **LAN/Wi-Fi** connectivity issues.

### ACM – ULM Chapter

Nov. 2025 – Present

*President*

Monroe, LA

- Grew active membership by **40%** by leading a team of 5 officers to restructure weekly meetings and expand technical programming, demonstrating leadership and collaboration in a fast-paced environment.
- Rebuilt the club's legacy website in **React, Next.js, and HTML/CSS**; grew annual Hackathon attendance **20%** managing logistics, technical setup, and a **\$1,500 budget** across **50+** participants.

### University of Louisiana at Monroe

Aug. 2024 – May 2025

*Undergraduate Researcher – Emerging Scholars Program*

Monroe, LA

- Built **Python** benchmarking scripts to profile runtime and power consumption of **AI inference** workloads across multiple model configurations on low-power edge hardware, identifying energy-efficient deployment options for autonomous vehicle applications.
- Developed an image-processing pipeline using **Python (OpenCV, NumPy)** to assess SLAM-based navigation accuracy on drone imagery; authored a research paper and was selected to present at the department's annual research showcase.

## Projects

### Drone Route Optimization System | *Java, OOP, JUnit 5* | [GitHub](#)

Sep. 2025

- Designed and built a **Java** multi-drone route optimization system applying **object-oriented design** — encapsulating clustering, branch-and-bound search with MST-based pruning, and route-splitting into modular components to generate feasible paths under battery and payload constraints.
- Optimized geographic lookups to  $O(1)$  via a precomputed **Haversine Distance Matrix**; validated algorithmic correctness with a comprehensive **JUnit 5** test suite ensuring enterprise-scale reliability.

### MindPath – AI Mental Wellness Platform | *Next.js, JavaScript, MongoDB, Gemini API* | [Website](#)

Feb. 2026

- Built a full-stack wellness platform in a **4-person Agile team** using **Next.js** and **JavaScript** with AI-powered journaling via Gemini API, mood-trend dashboards (**Recharts**), and an OOP-structured backend with role-based API routes and CI/CD deployment on Vercel.

### SafeRoute – Crime Risk Alert App | *React Native, Python/Django, OpenAI API* | [GitHub](#)

Jan. 2026

- Built a cross-platform mobile app in **React Native** with a **Python/Django REST API** delivering real-time GPS-based crime risk alerts via a custom time-decay scoring algorithm; integrated **OpenAI API** for context-aware natural-language safety summaries.

## Technical Skills

**Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML/CSS

**Frontend:** React, Next.js, React Native, Tailwind CSS

**Backend & Databases:** Node.js, Express.js, Django, PostgreSQL, MySQL, MongoDB, RESTful APIs

**Cloud & DevOps:** AWS, Docker, GitHub Actions, CI/CD, Git, Linux

**Concepts:** Object-Oriented Design (OOP), Agile, Data Analysis, Generative AI, RBAC

## Certifications

**AWS Certified AI Practitioner** **AWS Certified Cloud Practitioner** **EC-Council DevSecOps Essential** **CCNA: Introduction to Networks**