

# Rabin Regmi

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## PROFESSIONAL SUMMARY

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Computer Science senior and backend-focused software engineer specializing in scalable cloud architectures, distributed systems, and object-oriented design. Proven ability to own the complete software development lifecycle (SDLC), architect containerized microservices, and implement CI/CD pipelines. Adept at driving operational excellence and delivering highly resilient, fault-tolerant solutions for thousands of concurrent users.

## EDUCATION

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### University of Louisiana at Monroe

Expected May 2026

*Bachelor of Science, Computer Science* | GPA: 3.67/4.00

Monroe, LA

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Database Systems, Operating Systems

## TECHNICAL SKILLS

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**Languages:** Python, Java, TypeScript, JavaScript, C++, SQL

**Databases:** PostgreSQL, NoSQL, DynamoDB (familiar), SQLite, Redis

**Frameworks & Libraries:** FastAPI, Node.js, React, Next.js, PyTorch

**Cloud & DevOps:** AWS (EC2, Cloud-native architectures), Docker, CI/CD, GitHub Actions, Linux

**Concepts:** Distributed Systems, Object-Oriented Design, Microservices, SDLC, Operational Excellence

## EXPERIENCE

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### Technical Support Specialist

Aug 2022 – Feb 2026

*University of Louisiana at Monroe*

Monroe, LA

- Demonstrated operational excellence by monitoring, troubleshooting, and resolving 50+ complex technical issues weekly for a campus of 8,000+ users.
- Reduced average ticket resolution time by 15% and cut repeat production escalations by 20% through rigorous root-cause analysis and the creation of comprehensive technical documentation.

## TECHNICAL PROJECTS

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### Drona | *Python, FastAPI, Docker, PostgreSQL, WebSockets, CI/CD*

Spring 2026

- Architected a scalable, fault-tolerant distributed backend with containerized Docker execution sandboxes, supporting automated code evaluation across multiple languages.
- Designed a RESTful API using cloud-native principles; integrated asynchronous task queues for distributed job processing, reducing system latency by 60%.
- Owned the end-to-end SDLC, shipping a maintainable, object-oriented codebase with an automated CI/CD testing suite maintaining a 100% green rate.

### Image Classifier | *Python, FastAPI, PyTorch, SQLite, AWS*

Nov 2025

- Engineered and deployed a production-ready REST API on AWS EC2, serving complex ML inference at <200ms p99 latency.
- Wrote clean, maintainable code following best practices to design normalized database schemas and extensible data filtering layers.

### AI Travel Planner | *Python, FastAPI, React, TypeScript*

Oct 2025

- Built a multi-agent backend pipeline utilizing Python and zero-shot NLP models to accurately evaluate and classify complex user intent across varying categories.
- Implemented graceful degradation with rule-based fallback ensuring 100% system uptime when ML inference unavailable.

### OptiSleep | *Nuxt.js, Supabase, PostgreSQL, Netlify*

Aug 2025

- Deployed a production full-stack application scaling to 1,000+ concurrent users with real-time analytics dashboards and secure OAuth authentication.

## CERTIFICATIONS

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AWS Certified (Cloud Practitioner, AI Practitioner), Ethical Hacking Essentials (EHE), Google Cybersecurity (Python Automation, Linux & SQL), NDG Linux Unhatched