

# KARTHIK RAMADUGU

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## Summary

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- Software Developer with 2+ years of experience in full-stack development, DevOps, and AWS cloud solutions.
- Skilled in building scalable web applications and RESTful APIs using Node.js, Express.js, React.js, and MongoDB.
- Proficient in AWS services (EC2, S3, Lambda, CloudWatch) and implementing CI/CD pipelines with Jenkins and GitHub Actions.
- Experienced in applying DevOps practices (Docker, automated builds, cloud monitoring) to improve deployment speed and system reliability.
- Pursuing M.S. in Computer Science at the University of Dayton (Graduation: Dec 2025), with strong foundations in system design, algorithms, and software engineering.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript (Node.js), Java

**Frameworks:** Express.js, React.js, Mongoose

**Databases:** MongoDB, SQL, Redis

**Cloud/DevOps:** AWS (S3, EC2, Lambda), Jenkins, GitHub, Docker, CI/CD

**Tools:** Postman

**Development:** RESTful APIs, Agile/Scrum, Microservices

## EXPERIENCE

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### Software Engineer Intern , CAS, Columbus, Ohio

06/2024 – 07/2025

- Contributed to development of enterprise web applications, building secure REST APIs and microservices with Node.js and MongoDB.
- Implemented AWS-based deployment pipelines (EC2, S3, and Lambda) that reduced release times by 35%.
- Collaborated with DevOps team to establish CI/CD workflows using Jenkins and GitHub Actions, ensuring smooth integration and zero-downtime deployments.
- Optimized backend services, improving data retrieval efficiency by 25% and enabling better scalability for high-traffic systems.
- Worked closely with cross-functional teams to deliver features aligned with product roadmaps, boosting sprint velocity by 20%.

### Trainee , FunctionUp, Bengaluru, Karnataka

10/2022 – 05/2023

- Built scalable backend solutions using Node.js and Express.js, improving API response efficiency by 30%.
- Automated API testing with Mocha and Chai, ensuring high system reliability during feature rollouts.
- Collaborated in Agile teams to deliver solutions on time, aligning with client specifications.
- Utilized AWS (S3, EC2) to host backend services, ensuring high availability.

## PROJECTS

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### Graduate Project: Food Delivery App

Spring 2025

- Designed and developed a full-stack food delivery platform using the MERN stack, featuring role-based dashboards for customers, restaurants, and delivery staff.
- Integrated real-time order tracking, payment gateway, and push notifications.
- Implemented DevOps best practices with CI/CD pipelines and deployed on AWS for scalable performance.

### IndiaMart – E-Commerce Platform

Spring 2024

- Built a MERN-stack e-commerce application for the Indian community in Dayton.
- Implemented a unique budget planning tool that recommends product bundles within user-specified budget.
- Enhanced performance with Redis caching and deployed application on AWS.

EDUCATION

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University of Dayton, OH: Master of Science in Computer Science | GPA:3.43/4.00 2024 -2026