

Raghavendra Kulkarni

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EDUCATION

Northeastern University

Boston, MA

Master of Science in Computer Science

August 2024 – May 2026

Coursework: Algorithms, Programming Design Paradigm, Database Management Systems, Web Development

Visvesvaraya Technological University

Bengaluru, India

Bachelor of Engineering in Information Science and Engineering

August 2018 – July 2022

Coursework: Data Structures, Web Development, Cloud Computing, Object-Oriented Design, Machine Learning

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, C/C++, HTML, CSS

Frameworks & Technology: React, Angular, Node.js, Express, Spring Boot, Flask, Prisma, JUnit, Jest, MongoDB

Developer Tools & Platforms: Git, Docker, Kubernetes, Jenkins, Postman, VS Code, IntelliJ IDEA, Jira

Cloud & Deployment: AWS EC2, Grafana, CI/CD, Jenkins, GitHub Actions, Azure

EXPERIENCE

Cognizant Technology Solutions (Client: SAP Labs)

Bengaluru, India

Full-Stack Developer

October 2022 – August 2024

- Spearheaded the refactoring of SAP's Service Provider Cockpit UI using **React**, reducing user onboarding time by **30%** and improving infrastructure workflow efficiency by **15%**.
- Built RESTful microservices using **Node.js**, **Flask**, and **Spring Boot** across different modules with async processing, reducing manual server provisioning by **60%** and cutting infrastructure costs by **15%**.
- Accelerated deployment cycles by **40%** by containerizing applications with **Docker** and **Kubernetes** on **AWS EC2** instances and automating **CI/CD** pipelines using **Jenkins**.
- Monitored system health using **Grafana** dashboards, helping the team catch over **90%** of critical issues early and reduce infrastructure downtime by **30%**.
- Maintained code quality through **Git**-based version control and implemented unit/integration tests with **JUnit** and **Jest**, achieving **90%** test coverage across frontend and backend codebases.

Full-Stack Developer Intern

April 2022 - September 2022

- Enhanced the **OneCognizant** portal by building responsive UI components in **Angular** and integrating **Spring Boot** APIs, helping cut page load times by **35%** and boost backend responsiveness by **20%**.
- Worked closely with cross-functional teams in an **Agile** environment to roll out features **15%** faster, contributing to sprint planning, code reviews, and smoother frontend-backend collaboration.

PROJECTS

PlanVoyage | *GitHub*

January 2025 – April 2025

- Developed and launched a full-stack trip planner using **React**, **Node.js**, and **PostgreSQL**, supporting itinerary planning, place search, trip management, and authentication across 6+ user-facing modules.
- Designed secure **RESTful** APIs with **JWT**-based authentication, role-based access control, and containerized deployment via **Docker** on **AWS EC2**.
- Integrated **Geoapify** API to enable location-based search and suggestions from over **3M+** points of interest, streamlining place entry and improving user experience; automated deployment pipeline using **GitHub Actions**.

Image Processing Application | *Code available on request*

October 2024 – December 2024

- Engineered a modular image processing tool in **Java** using **MVC** and the **Command Design** pattern, supporting **10+** real-time filters via both CLI and GUI interfaces.
- Implemented custom image processing algorithms to apply pixel-level filters, achieving **2×** faster performance and **90%+** visual accuracy, with **95%** test coverage using **JUnit** and **Mockito**.

Food Bridge | *GitHub*

October 2024 – December 2024

- Built a full-stack web app using **Angular** and **Flask** with a **MySQL** backend to simulate food donation process.
- Structured a relational schema with stored procedures and triggers to ensure data integrity across users, inventory, and requests, and built **RESTful Flask APIs** with role-based access to securely handle request creation and tracking.