RAGHAVENDRA HANUMANTH RAO KULKARNI

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Education

Northeastern University   **September 2024 – May 2026**
Master of Science in Computer Science GPA: 3.5   *Boston, Massachusetts*

Visvesvaraya Technological University   **August 2018 – May 2022**
Bachelor of Engineering in Information Science and Engineering CGPA: 8.73   *Bengaluru, India*

Coursework

- Design Paradigms
- Database Management
- Web Development
- Algorithms

Experience

Cognizant Technology Solutions   **October 2022 – August 2024**
Full Stack Developer   *Bengaluru, India*

- Designed and developed web applications using Spring Boot and React.js, optimizing performance for high-traffic platforms. Implemented scalable backend services and dynamic front-end interfaces.
- Created RESTful APIs for seamless integration between front-end and back-end systems. Integrated secure authentication (JWT, OAuth2) to ensure data protection and compliance with security standards.
- Worked with MySQL databases, optimizing queries with JPA/Hibernate for efficient data handling. Automated build, deployment, and testing pipelines with Jenkins, Docker, and Kubernetes on AWS.
- Built reusable front-end components with React.js and Redux, enhancing user interactivity. Utilized Git for version control and implemented automated testing with JUnit and Mockito in an Agile environment.

Cognizant Technology Solutions   **April 2022 – September 2022**
Full Stack Developer Intern   *Bengaluru, India*

- Developed a full-stack service booking web application using Angular and Spring Boot, implementing secure APIs, state management, and efficient data handling with JPA and H2 database.
- Deployed microservices on AWS EC2 using Docker for containerization, collaborating with senior developers to optimize backend performance and ensure seamless deployment across environments.
- Participated in agile development processes, contributing to sprint planning, code reviews, and automated testing with JUnit and Mockito, improving code quality and performance.

Projects

Image Editing Application

- Designed and developed a Java-based image editing application adhering to the MVC architectural pattern.
- Implemented core image processing functionalities including Grayscale, Sepia, Brightness adjustment, Levels Adjustment, Image Flipping, and Histogram Generation using custom-designed algorithms.
- Engineered comprehensive JUnit tests to ensure code reliability, validate edge cases, and maintain robust performance.
- Emphasized modular design and reusable components, optimizing code maintainability and scalability while demonstrating advanced problem-solving and software engineering practices.

Food Donation Application

- Built a full-stack web application using Angular (frontend), Flask (Python backend), and MySQL (database) to streamline food donations from restaurants to needy individuals.
- Designed and implemented a relational database to manage food inventory, user orders, and admin privileges, enabling efficient operations and data management.
- Developed RESTful APIs with Flask to support features like food item management by admins and a user-friendly interface for browsing and placing pickup requests.

Gadgets on Wheels

- Designed and developed a full-stack web application for online gadget rentals, utilizing PHP for backend development, HTML, CSS, and JavaScript for a responsive and dynamic frontend, and MySQL for database management.
- Implemented user account management, allowing customers to securely register, browse electronic gadgets, complete rental transactions, and added admin functionality to manage the inventory effortlessly.

Technical Skills

Languages: Java, Python, Javascript, SQL, Typescript, C/C++, HTML/CSS
Frameworks/Technologies: Spring Boot, React, Angular, Node.js, Docker, Kubernetes, AWS, MySQL, MongoDB
Tools: Git, Postman, Node, Maven, Jenkins, JUnit, Mockito, Intellij IDEA, Jira, Service Now
Core Concepts: Data Structures, Algorithms, Cloud Computing, Linux, REST API, CI/CD, Agile, Microservices