ADITYA RATHORE

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EDUCATION

UNIVERSITY OF FLORIDA **Aug 2025 – May 2027**
Master of Science in Computer Science Florida, United States
Relevant Coursework: Distributed Operating System Principles, Advanced Data Structures, Introduction to Data Science

JK LAKSHMIPAT UNIVERSITY **Jul 2018 – May 2022**
Bachelor of Technology in Computer Science and Engineering, **GPA: 8.6/10** Rajasthan, India
Graduated first in class with gold medal for academic excellence
Relevant Coursework: Artificial Intelligence, Machine Learning, NLP, Software Engineering, Database Systems, Algorithms

SKILLS

Languages: Java, Python, JavaScript, SQL, Gleam, C, HTML, CSS
Software/Frameworks: Spring Boot, React, JUnit, Bootstrap, Kafka, Azure Event Hubs
Databases: PostgreSQL, MySQL, Yugabyte
Developer Tools: Git, Docker, Kubernetes, Gradle, Jira, Agile, Grafana, Postman, Datadog, MS Azure, GCP
System Design: Microservices Architecture, Distributed Systems, API Design

WORK EXPERIENCE

ZOPSMART **Bengaluru, India**
Software Engineer **Jul 2022 – Jul 2025**

- Architected and developed 3 **Spring Boot** microservices with 22 REST APIs to migrate product catalog logic, significantly reducing item fallout rates by 65%.
- Enhanced authentication and authorization using **Spring Security**, ensuring secure access control for all users and achieving 100% compliance with internal data policies.
- Engineered scalable backend **microservices** using **Spring Boot**, leveraging reactive programming paradigms and **Kafka** integration to support enhanced item availability options across the platform.
- Orchestrated the **cloud migration** of **27** microservices to **Azure** from on-premises, boosting infrastructure resilience, optimizing resource management and enabling comprehensive post-migration performance monitoring.
- Led the transition of an application from a **monolithic** architecture to 7 **microservices**, reducing the system complexity and improving maintainability.
- Implemented unit tests using **JUnit** and **Mockito** achieving the 90% code coverage requirement for successful builds and reliable business logic validation.
- Configured **CI/CD** pipelines utilizing **GitHub Actions** and **Docker** to support deployment processes across multiple environments.

Software Engineering Intern **Jan 2022 – Jul 2022**

- Spearheaded a workforce management platform from the ground up for managing 45+ projects, and 500+ employees.
- Developed server-side components using **Spring Boot** and **PostgreSQL**, integrating leave management and 5+ **Google Chat** webhook automations for notifications across multiple departments.
- Built responsive React UI components integrated with CSS modules and modern JavaScript.
- Containerized the application using **Docker** and orchestrated deployments with **Kubernetes** for resilient environments, enabling effortless scaling to handle a 2x increase in user load.

PROJECTS

PARALLEL COMPUTING OPTIMIZATION | *Gleam, Actor Model* **Aug 2025**

- Designed distributed actor-based system achieving 7.4x CPU parallelization across multi-core architecture
- Optimized mathematical algorithms for consecutive square summation achieving millisecond level efficiency.
- Achieved near-optimal resource utilization through systematic performance tuning and analysis

NAMED ENTITY RECOGNITION | *Python, TensorFlow, Keras, scikit-learn* **Nov 2024**

- Trained a deep neural network model to identify and classify named entities within text using Python.
- Applied tokenization to segment text into words and vectorization to convert words into numerical data.
- Achieved 96% accuracy in identifying names, locations, and other entities.