

# TEJAS RAMESH PAWAR

Salt Lake City, Utah, USA

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Software engineer with a strong foundation in computer science, specializing in scalable, high-performance applications. Proficient in Java Spring Boot, Docker, Kafka, and Aerospike, passionate about solving complex technical challenges.

## TECHNICAL SKILLS AND CERTIFICATIONS

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- **Languages:** Java, Python, Golang, C, C++, JavaScript, Typescript, SQL, Shell Script, MATLAB
- **Frameworks:** Java Spring Boot, React, Scikit-learn, NLTK, Numpy, TensorFlow, Keras
- **Cloud, DevOps Tools:** Docker, Kubernetes, Terraform, Jenkins, CI/CD, Azure, AWS, Oracle Cloud Infrastructure, HPC
- **Big Data and Streaming:** Apache Kafka, ELK Stack (Elasticsearch, Logstash, Kibana), RabbitMQ
- **Software Development:** Agile Methodologies, Software Development Lifecycle (SDLC), Object-Oriented Programming
- **Databases and Version Control:** Aerospike, MongoDB, MySQL, PostgreSQL, ETL, Jira, Confluence, Github, Bitbucket
- **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional:** Issued July 2024
- **Microsoft Certified: Azure Developer Associate:** Issued November 2024
- **Amazon Web Services(AWS) Certified Developer - Associate:** Issued January 2025

## WORK EXPERIENCE

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### Software Engineer - Full Stack, Airtel Digital, Gurugram, India July 2021 - July 2023

- Developed and maintained robust Java Spring Boot applications, implementing rigorous unit testing protocols ensuring 95% code coverage, ensuring high-quality software delivery and reduction in production bugs by over 20%.
- Collaborated with 10+ external partners and cross-functional teams to identify, onboard, and integrate 100+ new products and services into Digital Store catalog, resulting in 20% increase in customer acquisition.
- Spearheaded development of multiple microservices, successfully implementing optimized data pipelines and ensuring seamless scalability using technologies such as Java Spring Boot, Docker, and Apache Kafka. This initiative aligned with key business goals, reducing API response time by 40%, and led to 15% increase in user engagement.
- Innovated and built cutting-edge lead delivery system for Airtel SHOP app, integrating seamlessly with third-party platforms which reduced lead transfer time by 50% and significantly boosted lead conversion rates by 40%.
- Implemented comprehensive UI enhancements and extensive infrastructure revamps, including successful migration of 50% of database traffic to Aerospike using Terraform. This migration resulted in 30% reduction in latency and 20% improvement in system uptime by actively identifying, and resolving critical issues of our e-commerce platform.

### Software Engineering Intern, Airtel Digital, Gurugram, India January 2021 - July 2021

- Developed robust self-serve tool using Java Spring Boot, containerized application with Docker, streamlining and accelerating third-party integration with Airtel Digital Store, boosting integration time by over 50%.
- Engineered, optimized scalable RESTful APIs using MongoDB for optimised traffic distribution/ management resulting in 25% reduction in order failures, 99.9% uptime; significantly improving user experience, reliability.
- Designed and implemented comprehensive real-time monitoring/logging solutions, with Java, ELTK stack, enabling proactive issue detection, which significantly reduced system downtime improving overall system stability.

## EDUCATION

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- **University of Utah** Salt Lake City, Utah, USA  
*Masters of Science - Computer Science; GPA: 3.8/4* August 2023 - Present  
*Courses: Advanced Algorithms, Computer Architecture, Machine Learning, Operating Systems, Computational Geometry*
- **Indian Institute of Information Technology Allahabad** Allahabad, India  
*Bachelor of Technology - Information Technology; CGPA: 8.18/10* July 2017 - June 2021  
*Courses: Computer Science - Design And Analysis Of Algorithms, Data Structures And Algorithms, Database Management System, Operating System, Object Oriented Methodology(OOP), Deep Learning. Mathematics - Linear Algebra, Probability And Statistics.*

## PROJECT EXPERIENCE

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### CALTECH Bird Dataset Classification Using Capsule Network, Python3, High Performance Computing

- Developed advanced classification system for 200 species of North American birds, each represented by 60 samples, by expanding preexisting Convolutional Neural Network (CNN) to Capsule Network (CapsNet).
- Enhanced model accuracy, leveraging CapsNet's superior ability to recognize spatial hierarchies and relationships within the dataset, significantly improving classification performance with use of High Performance Computing.

### Data streaming with Kafka, Aerospike in Java Spring Boot, Apache Kafka, MongoDB, Java Spring Boot

- Engineered Java spring boot microservice which streams data with Apache Kafka ensuring high throughput and low latency, optimizing data flow from production to consumption.
- Mongo DB used for persisting data after consumption. Also using Aerospike to leverage its fast lookup time based on use-case.