Tejas Ramesh Pawar

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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

- **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

Certifications

- **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional**: Issued July 2024
- **Microsoft Certified: Azure Developer Associate**: Issued November 2024
- **AWS Certified: Amazon Web Services Developer Associate**: Issued January 2025

Work Experience

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.
- Led microservices development with Java Spring Boot and Docker, achieving 15% growth in user engagement, 40% faster API response, and scalable data pipelines via Apache Kafka; also resolving critical e-commerce issues.
- Innovated and built a lead delivery system for Airtel SHOP app, integrating seamlessly with third-party platforms, which reduced lead transfer time by 50% and boosted lead conversion rates by 40%, enhancing sales performance.
- Implemented UI enhancements and infrastructure revamps, migrating 50% of database traffic to Aerospike integrated with Terraform, resulting in 30% latency reduction and 20% uptime improvement.

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

- Planned and programmed a self-serve tool using Java Spring Boot and containerized the application with Docker, which streamlined third-party integration with Airtel Digital Store and reduced integration time by over 50%.
- Engineered and optimized scalable RESTful APIs using MongoDB to manage traffic distribution, resulting in a 25% reduction in order failures and 99.9% uptime, which improved user experience and reliability across the system.
- Designed and implemented real-time monitoring and logging solutions using Java and the ELK stack, helping detect issues early and reduce system downtime, which improved overall system stability by over 30%.

Education

- **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

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.