Tejas Ramesh Pawar

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A graduate student specializing in Computer Science with a proven track record in software engineering. Seeking software engineering and data science roles to apply advanced skills in technology optimization.

Technical Skills And Certifications

- **Languages**: JAVA, Python, Golang, C, C++, JavaScript, SQL, Shell Script, MATLAB
- **Frameworks**: Spring Boot, React, Scikit, NLTK, Numpy, TensorFlow, Keras, Agile
- **Tools**: Aerospike, Kafka, MongoDB, MySQL, GIT, Data Structures, Algorithms, Object Oriented Programming
- **Others**: Linux/Unix, Docker, Kubernetes, Cloud Computing/Azure, HPC, Microservices, Jira, Confluence
- **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional**: Issued July 2024

Work Experience

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

- Developed and maintained robust Spring Boot applications by implementing rigorous unit testing protocols and adhering to clean coding practices, ensuring high-quality software delivery.
- Collaborated with 10+ external partners and cross-functional teams to identify, onboard, and integrate 100+ new products and services into the Digital Store catalog, resulting in a 20% increase in customer acquisition.
- Spearheaded the development of multiple microservices using technologies such as Spring Boot, Docker and Apache Kafka, aligning with business goals and reducing API response time by 40%, which led to a 15% increase in user engagement.
- Engineered a cutting-edge 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%.
- Implemented UI enhancements and infrastructure revamps, including the migration of 50% of database traffic to Aerospike. This migration reduced latency by 30% and improved system uptime by 20% by proactively addressing potential issues and resolving code bottlenecks.

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

- Involved in development of a self-serve tool for third party integration of partners with Airtel Digital Store that helped reduce integration time by 50%.
- Engineered and optimized RESTful APIs for traffic distribution and management, resulting in a 25% reduction in order failures on the digital store, significantly improving user experience and reliability.
- Designed and implemented comprehensive monitoring and logging solutions, enabling proactive issue detection and resolution, which reduced system downtime.

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*
- **Indian Institute of Information Technology Allahabad** Allahabad, India
  Bachelor of Technology - Information Technology; CGPA: 8.18/10 *July 2017 - June 2021*

Project Experience

- **CALTECH Bird Dataset Classification Using Capsule Network** : Python3, High Performance Computing
  - **Description**: Developed an advanced classification system for 200 species of North American birds, each represented by 60 samples, by expanding a preexisting Convolutional Neural Network (CNN) to a 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 the use of High Performance Computing.
- **Data streaming with Apache Kafka, Aerospike in Spring Boot**: Java, Apache Kafka, MongoDB, Spring Boot
  - **Description**: Engineered a 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 the data after consumption. Also using Aerospike to leverage its fast lookup time based on the use-case.
- **Speech To Text and Summarization**: Natural Language Processing, Python, NLTK, Tkinter
  - **Description**: Engineered a sophisticated application to convert speech to text documents and generate concise summaries. The system accepts voice recordings or direct microphone input. Achieved competitive accuracy by comparing and refining the model against leading market summarizers, delivering a robust solution for efficient and accurate speech transcription and summarization.