

Hari Vilas Panjwani

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PROFESSIONAL SUMMARY

Experienced Software Engineer with expertise in developing scalable distributed systems, leveraging strong fundamentals in Algorithms, Distributed Systems, Distributed Computing, and Machine Learning to enhance business outcomes.

EXPERIENCE

Amazon | Software Engineer

Seattle, WA

Spring MVC, AngularJS, TypeScript, Java, AWS Lambda, DynamoDB, EKS, CloudWatch, CloudFormation

- Redesigned seller feedback microservices and Java REST APIs, served page globally in **22+ languages**, and increased customer satisfaction measured by positive feedback of 30%.
- Ensured seamless deployment of critical API changes for **80K+ monthly active** users with **zero downtime**, leveraging AWS monitoring and observability tools.
- Efficiently overhauled legacy feedback mechanisms, cutting abandonment rates by 10% and enriching customer insights.
- Developed Seller Assistant using RAG and LLM to enhance efficiency in addressing seller claims queries.
- Migrated Seller Email Notification Service, reliably sending over **250K+ emails** monthly.

DHL | Software Engineer

India

Data Science, PyTorch, Data Analysis, Data Engineering, Machine Learning, Kubeflow, MLFlow, and Airflow

- Achieved **95% reduction** in false positives for fraud shipment detection, preventing significant losses by implementing supervised ML models with iterative experimentation and statistical analysis.
- Designed and implemented a custom ML and data pipeline, leveraging MLFlow and Airflow to enhance operational efficiency through optimization and automation.
- Contributed to the creation of robust monitoring and logging systems, for continuous evaluation of model performance.

TECHNICAL SKILLS

Languages	Java, Python, C++ , C, JavaScript, SQL, Go, Typescript, C#/.NET
Frameworks	Spark, Node.js, ReactJS, Hadoop, Elastic Search, Angular, Spring MVC
Development & Database	MySQL, Oracle DB, MongoDB, HTML, CSS, Flask, Android, IOS
Functional Skills	Software Development, Cloud Native Development, Distributed Systems, GenAI
Cloud & DevOps	Kafka, Docker, Kubernetes, Git, AWS, Azure, Redis, RabbitMQ

PROJECTS

Distributed Key Value Store | *Distributed Systems, Java, UDP, TCP, Triggers, Multithreading, Socket Programming* | [Github](#)

- Implemented a primary-backup protocol for robust state machine replication, ensuring swift recovery and fault tolerance in the event of node failures.
- Enhanced system performance by integrating an application load balancer and an in-memory cache layer with customizable policies, leading to increased throughput and reduced latency.

Video Interview Analysis | *React, Flask, MongoDB, PyTorch* | [Github](#)

- Built an end-to-end hiring solution that automatically prioritizes candidates based on resume job description similarity and candidate video analysis, with potential reduction in hiring time and improvement in candidate personalized feedback loops.
- Provided analysis of communication skills with metrics like speech speed, filler words and pauses.

Realtime Stock Trading Platform | *Java, MVC, OOPS Design Patterns* | [Github](#)

- Designed and developed stock market simulation with real-time prices using AlphaVantage API, facilitating learning, and experimenting with the market by creating portfolios, trading, and applying strategies adhering to SOLID Principles.
- Visualized performance of the portfolio over time on basis of the trades and also overall achieved **97% test coverage**.

Text Search Engine | *Crawling, Indexing, Ranking, Elastic Search* | [Github](#)

- Engineered web crawler, parser, and inverted indexer to efficiently index web pages and build a search database.
- Elevated search engine performance by implementing the PageRank algorithm on crawled outlinks and inlinks data, utilizing Apache Spark for distributed computation, optimizing relevance and accuracy of search results.

EDUCATION

Northeastern University | Master of Science in Computer Science | GPA: 4.0

Courses - Distributed Systems, Large Scale Data Processing, Cloud Computing, Software Engineering

Graduate Teaching Assistant in Information Retrieval

Boston, MA

Vellore Institute of Technology | B.Tech in Computer Science and Engineering | GPA: 9.08/10