

Hari Vilas Panjwani

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PROFESSIONAL SUMMARY

An experienced Software Engineer specializing in scalable distributed systems and possessing strong fundamentals in Algorithms, Distributed Computing, and Full-stack development. Dedicated to driving organizational growth and enhancing business outcomes. [Immediately Available and Open to relocating anywhere in US]

WORK EXPERIENCE

Amazon | *Software Engineer, Seattle, WA*

- Redesigned **Java REST API** microservices and **React** based seller feedback page, which increased positive feedback by 30%.
- Deployed critical API changes with **80K+ monthly active users**, leveraging **AWS CloudWatch** Events & Logs.
- Efficiently overhauled legacy feedback mechanisms, cutting **abandonment rates by 10%** and enriching customer insights.
- Developed Seller Assistant with **RAG** and **AWS Bedrock** using **Langchain** enhanced efficiency in addressing seller claims queries.
- Migrated Seller Email Notification Service, reliably sending over **250K+ emails** monthly.

Khoury College of Computer Sciences | *Software Engineer, Boston, MA*

- Developed a text search engine; built a web crawler to scrape web pages and utilized **Elasticsearch** for efficient indexing.
- Implemented PageRank algorithm using **PySpark**, integrating the results with Elasticsearch to enhance search relevance scores.

DHL | *Software Engineer, India*

- Developed a **FastAPI** microservice enhancing real-time detections of fraud shipments and reduced **response time by 30%**.
- Designed pipeline with **Airflow** and **Kubeflow** boosting **operational efficiency by 25%**.
- Developed a monitoring dashboard and established a comprehensive logging system with **Datadog**.
- Modularized **PyTorch** code for maintainability and retraining ML models with versioned artifacts.

BroSoft System | *Software Engineer, India*

- Developed RESTful APIs with **Node.js** and **Express** to manage reservation requests and table availability efficiently.
- Constructed a real-time reservation update and a QR-based menu using **React** which enhanced user interaction.
- Developed CRM web application for supply chain management using **Spring MVC** and **React**.
- Build vehicle tracking system using **Kafka Streams** by creating topics for GPS data and aggregating location.

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, C++, C, TypeScript, PHP, SQL

Development & Databases: PostgreSQL, MongoDB, Elasticsearch, Map Reduce, PySpark, Kafka

Frameworks: React, Node.js, Spring Boot, Redux, Angular, Spring Framework

Cloud & DevOps: Kubernetes, Docker, Git, Redis, RabbitMQ, Linux, Azure, AWS

PROJECTS

Distributed Key Value Store, [Github](#)

- Implemented a primary-backup state machine replication using **C++ sockets**, ensuring swift recovery and fault tolerant to failures.
- Coded **multithreaded** load balancer with an in-memory cache using **Mutex**, leading to increased throughput and reduced latency.

Automated Video Interview Platform, [Github](#)

- Engineered a **React**-based interview platform with live video **streaming** capabilities.
- Employed **Flask** backend to facilitate video analysis, integrated **BERT** API for scoring of resumes match with job description.
- Utilized Speech Recognition for text extraction, enabling analysis of speech speed, filler word frequency, and pause duration.

Realtime Stock Trading Platform, [Github](#)

- Utilized SDLC principles to build user-friendly platform in **Java**, following **MVC** architecture and Command design patterns.
- Upgraded platform by integrated **AlphaVantage API** to retrieve real-time stock data & **JUnit** framework for **100%** code coverage.

Face recognition with mask using MTCNN and FaceNet, [Paper](#)

- Trained model in **PyTorch** to recognize images with an accuracy of 95% even with facemasks.

EDUCATION

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

Courses: NLP, Web Development, Cloud Development, Distributed Systems, Large Scale Data Processing

Boston, MA