Prathik Bharath Jain

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SUMMARY

Software Engineer with 3+ years of experience building scalable backend services, distributed systems, and high-performance APIs. Strong background in Java, microservices, cloud infrastructure, data streaming, and payment systems. Proven impact in reducing latency, improving availability, and delivering production-grade features used by millions.

TECHNICAL SKILLS

Languages: Java, Python, Scala, SQL, C, JavaScript, Go, HTML, CSS, React

Backend: Spring Boot, REST APIs, gRPC, Microservices, PostgreSQL, MySQL, Redis

Cloud & Infra: AWS (S3, lambda, EC2, Redshift), Docker, Kubernetes, Git, GitLab, CI/CD

Distributed Systems and tools: Kafka Cassandra, Spark, Airflow, Hadoop ecosystem, Swagger, Open AI, Terraform (basics)

EXPERIENCE

Software Engineer | Zee Entertainment Ltd | Bangalore, India   **January 2022 - July 2023**

- Engineered Spring Boot microservices for a new Juspay payment integration, transitioning 95% of payment traffic without service disruption.
- Engineered a third-party Apple payment token verification service with an in-house module, reducing API latency by 92%.
- Designed backend API contracts and implemented asynchronous communication using Kafka, increasing transaction success rates and contributing to $2.5M annual revenue lift.
- Built a generic server-to-server asynchronous notification system using AWS + Kafka, reducing cloud cost and simplifying monitoring across 5 payment providers. Resolved 100+ critical production issues

Software Engineer Intern | Lincoln Electric | Cleveland, OH, USA   **May 2024 - May 2025**

- Built 75+ data pipelines in **Azure Data Factory** using Azure data bricks, and medallion architecture to transform and migrate data for **Power BI**, facilitating business intelligence and creating **SQL scripts** for ad-hoc requests.
- Extracting tables from **SAP** tables using OData connectors and SAP table connectors to the Azure Synapse environment building the **Data warehouse** environment and scheduling update pipelines in Azure Synapse Analytics.
- Transcribed Oracle **stored procedures** and scripts into SQL Server and migrated data flows from **Alteryx** to Azure.
- Developed a comprehensive dashboard for tracking log metrics in real-time; this initiative empowered teams with actionable insights by reducing troubleshooting time by 60% during critical operational periods.

Software Engineer Intern | Riskcovry | Bangalore, India   **June 2021 - July 2021**

- Integrated multiple third-party provider's APIs using JavaScript and produced Swagger-based API documentation for onboarding partners.
- Developed a discharge-summary OCR validator with 93% accuracy, reducing manual insurance claim review time.

Data Scientist | Atkins Realis | Denver, CO, USA   **July 2025 - Present**

- Developing an ML model to predict water pipeline bursts using feature engineering to reduce failures and disruptions.
- Built a Power BI dashboard to monitor grant applications across pre- and post-award workflows, integrating multiple data sources and automating refresh schedules.

Machine Learning Engineer | Gil's Lab | Boulder, CO, USA   **September 2023 - May 2024**

- Built an end-to-end computer vision pipeline using YOLOv8 and Bot-SORT for small-object fish detection and tracking, achieving 93.87% accuracy and enabling automated behavioral analytics.

PROJECT

SQL RAG - LLM Powered SQL Query | Python, LLM, RAG, Streamlit, SQLite, REST API

- Developed a Streamlit web app that converts natural language into SQL queries using a local LLM with Retrieval-Augmented Generation (RAG) over schema metadata, improving query accuracy on complex joins.
- Automated table creation, data insertion, and real-time query execution on SQLite, streamlining data retrieval and manipulation.

Sales Forecasting MLOps Platform | Python, Airflow, MLflow, Docker, Minio

- Built a **production-grade MLOps pipeline** using Astronomer/Airflow to orchestrate data validation, feature engineering, model training, experiment tracking, and artifact storage for forecasting.
- Implemented an ensemble forecasting system (XGBoost, Prophet) with Optuna optimization, achieving low MAPE, comprehensive diagnostics through automated visualization and MLflow-tracked metrics.

EDUCATION

Master of Science in Data Science - University of Colorado Boulder, USA   CGPA: 3.9/4.0   **August 2023 - May 2025**
Bachelor of Technology in Computer Science - PES University, India   CGPA: 8.4/10   **August 2018 - June 2022**