

# ARJUN BINDU JAYACHANDRAN

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Senior Software Engineer building GenAI and backend platforms in regulated fintech. Initiated a two-tower + LLM-agent bond recommendation platform now in productization, plus LangGraph orchestrator + validator RAG systems with enterprise AI governance. Hardened PnL microservices with Redis state externalization, Kafka exactly-once semantics, and idempotent ingestion under high-volume trade load. Recipient of Wells Fargo's Top Achievers Award 2025.

## EDUCATION

### National Institute of Technology Calicut

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.55

2022

Calicut, India

## TECHNICAL SKILLS

**Languages:** Python (primary), Java

**Backend & Distributed Systems:** System Design, Microservices, Event-Driven Architecture, Apache Kafka, REST APIs, gRPC, MongoDB (Aggregation Pipelines, Compound Indexing), Redis (Distributed Caching), SQL, Spring Boot, Apache Camel, Horizontal Scaling, Idempotency

**AI/ML & Agentic:** LLMs, Retrieval-Augmented Generation (RAG), LangGraph, LangChain, LLM Agent Patterns (Orchestrator + Validator), Model Context Protocol (MCP), Tool Calling, Vector Search (FAISS), PyTorch, scikit-learn, PII Masking, Tamper-Evident Audit Logging

**Infrastructure, Observability & CI/CD:** Kubernetes, Docker, Helm, OpenShift (OCP), GitHub Actions, Jenkins, Prometheus, Grafana, Splunk, Sonar

## EXPERIENCE

**Wells Fargo** | *Senior Software Engineer* | Bengaluru, India

Jan 2026 – Present

- **Initiated a bond recommendation system** – built a two-tower dual-encoder PoC (symmetric **InfoNCE contrastive** learning, ANN similarity search) with an **LLM agent layer** that converses with users and orchestrates similarity + free-form queries; drove from PoC to a funded production build.
- **Architected the production deployment** with **decoupled training + serving** (ONNX-runtime inference, **FAISS** vector indices, temporal train/val/test split) and feedback-driven **scheduled retraining** from accept/dismiss signals.
- **Shipped a replay-safe historical rerun API on a PnL service** – async Camel endpoint with context-propagation headers (recalc-flag, snapshot-date) flowing through trade / position / publish routes and **date-correct persistence with Kafka-publication suppression for backfills**, so corrected snapshots never leak into live downstream consumers.
- **Drove reliability hardening across PnL reporting services** – led root-cause analysis on data mismatches, decoupled fragile upstream dependencies, and added fail-fast integrity guards – shifting services from patch-driven fixes to a **resilient-by-design** posture.

**Wells Fargo** | *Software Engineer* | Bengaluru, India

Jul 2022 – Dec 2025

- **Designed a LangGraph orchestrator + validator agentic pipeline** for natural-language → database query translation, layering **RAG retrieval**, **MCP-based tool exposure**, and **governance** (syntax checks, PII masking, tamper-evident audit) to enforce safe-query policy before execution.
- **Enabled horizontal scaling** of PnL microservices – externalized in-process state to Redis to enable stateless replicas, with **Kafka exactly-once consumer semantics** ensuring concurrency safety under high-volume trade load; contributed a **DMN rules engine** for swap position and payment-leg roll-ups and idempotent file ingestion for end-of-day archival flows.
- **Optimized MongoDB query latency by 30–40%** on PnL reporting stores – replaced legacy Views with aggregation pipelines and compound indexing, materially reducing infra load across the reporting cluster.
- **Redesigned a PnL data-collection backup microservice from single-call to batched processing** – consolidated per-record upstream calls into bulk payloads, improving end-of-day throughput by **~90%** and reducing I/O contention across the service mesh.
- Authored a **150+ financial-scenario automation framework** (parallel execution, **60% regression-cycle cut**, Splunk telemetry) and led **OpenShift modernization of 10+ core services** with resilient CI/CD.
- Owned **PnL services** and ABF data ingestion, driving steady reliability improvements through targeted refactors and observability upgrades.

**Wells Fargo** | *Technology Intern* | Bengaluru, India

May 2021 – Jul 2021

- Built a time-series forecasting engine for ATM cash optimization benchmarking **SARIMA, LSTM, and Prophet** on transaction data from 111 ATMs, with exogenous factors (holidays, weather) and automated retraining; achieved **~91% weekly prediction accuracy** via aggregated-window forecasting.

## PUBLICATIONS & AWARDS

**Publication:** *SaBMOGWO-S* – novel algorithm for feature selection across 21 benchmark datasets; The Journal of Supercomputing, 2023 (Vol. 79, pp. 12869–12901), co-authored.

**Awards:** **Top Achievers Award 2025** (Wells Fargo's highest individual honor); **Innovation Pitch Day 2024 Grand Finalist** (top 4 across firm-wide submissions); **Manager Spotlight Awards (twice)**.