ABHILASH BANDARI

Backend Developer

Delhi, India | +91-9014409268 | bandariabhilash0@gmail.com | linkedin.com/in/abhilash-bandari | github.com/bandari-abhilash | medium.com/@bandariabhilash0

SUMMARY

Backend developer with 5+ years of experience designing and operating high-performance, low-latency distributed systems in Go, Python, and C#. Architected a real-time market-data broadcast system with ~40ms end-to-end latency and an in-house charts platform on self-hosted TimescaleDB serving 8B+ records at 30ms p99, saving ₹2 Cr annually. Led the migration of on-premise trading platforms to AWS. Currently leading a team of 4 engineers at SMC Global Securities.

SKILLS

Languages: Go (Golang), Python, C#, JavaScript (Node.js), Shell Scripting

Databases & Search: PostgreSQL, TimescaleDB, MongoDB, MSSQL, Redis, Apache Solr, InfluxDB

Cloud & DevOps: AWS (EC2, ECS, S3, Lambda, API Gateway, NLB/ALB, Transit Gateway, VPC, WAF, Direct Connect), Docker, Kubernetes, CI/CD, Linux

Realtime & Architecture: gRPC, WebSockets, UDP Multicast, REST APIs, Microservices, Event-Driven Systems

EXPERIENCE

Member of Technical Staff-3 Aug 2023 – Present

SMC Global Securities — financial services and trading — Delhi, India

- Architected and developed a high-performance broadcast/market-feed system in Go and C#, delivering real-time trading data from exchanges with ~40ms end-to-end latency.
- Architected an in-house charts platform end to end on self-hosted TimescaleDB — designed the schema, ingestion, and query layer for 8B+ time-series records, serving chart APIs at 30ms p99 latency and saving ₹2 Cr annually in vendor fees.
- Led the migration of on-premise trading systems to AWS using Direct Connect, GRE tunnels, and Transit Gateway, improving system stability by 85%.
- Resolved packet drops in the trading network through Linux kernel-level tuning, reducing drops by 65%.
- Developed and scaled a stateless GTT order system and price-alerts service in Go for reliability and horizontal scalability.
- Optimized Apache Solr search configuration and queries, achieving a p99 latency of 70ms.
- Redesigned the beginning-of-day (BOD) batch process in Python, cutting runtime from 4 hours to 30 minutes.
- Provide technical leadership and mentorship to a team of 4 developers.

Software Engineer Jun 2023 – Aug 2023

KorelOT Solutions — IoT — Vadodara, India (Remote)

- Designed and implemented a microservice to migrate stored documents to Azure Blob Storage, cutting storage costs by approximately $4K per year.
- Optimized client-facing APIs, reducing p99 latency from 960ms to 98ms.

Software Engineer Apr 2021 – Jun 2023

BYJU'S (Think & Learn) — edtech — Bangalore, India (Remote)

- Integrated logistics APIs processing 105,000+ daily shipments; designed and implemented a job-orders management system in Go.
- Built microservices for the Supply Chain and Digital Finance verticals, handling transactions exceeding $1M monthly.
- Developed real-time analytics dashboards (React, Node.js) and a customer-facing book-delivery tracking platform.
- Led and mentored a team of 4 developers.

OPEN-SOURCE PROJECTS

connection-dump (Go) — tcpdump alternative for port-based TCP/UDP traffic monitoring with configurable reporting. github.com/bandari-abhilash/connection-dump

multicast-test-tool (Go) — CLI to verify UDP multicast connectivity between a source and multiple destinations. github.com/bandari-abhilash/mutlicast-test-tool

migration-scripts (Python) — Redis and Apache Solr migration utilities with OOM-safe batching; migrates datasets between environments in minutes. github.com/bandari-abhilash/migration-scripts

Technical writing — articles on networking, Docker/AWS multicast, and Solr operations at medium.com/@bandariabhilash0

EDUCATION

Bachelor of Technology, Computer Science & Engineering 2017 – 2021

Guru Nanak Institutions, Hyderabad, India