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SUMMARY

Senior Software Engineer with 9+ years of experience building scalable, high-performance systems in e-commerce and healthtech. Strong expertise in Python, Django, DRF, FastAPI, PostgreSQL, Redis, Elasticsearch, and AWS. Proven track record in leading teams, designing system architectures, and delivering real-time, user-focused platforms.

WORK EXPERIENCE

Sr. Software Engineer (Level II), Vivasoft Ltd. **April 2024 - Present**

Stickler — Live Commerce Platform

- Led backend architecture for a TikTok live-streaming monitoring and analytics platform.
- Designed and built stikfuse — a custom engine that reliably captures TikTok event streams without being blocked. Powers the platform's real-time monitoring and V2 HLS recording pipeline with S3 storage and JWT-signed playback.
- Built microservices (scheduler, GraphQL API, recording, audio analysis) using Python, FastAPI, Strawberry GraphQL, and PostgreSQL with shared SQLAlchemy models and Alembic migrations. Native OpenTelemetry monitoring with SigNoz for distributed tracing.
- **Technologies:** Python, FastAPI, Strawberry GraphQL, PostgreSQL, SQLAlchemy, Redis, AWS ECS Fargate, AWS S3, AWS AppSync, Docker, stikfuse, OpenTelemetry, SigNoz

GlobalPartsHub — Aviation Parts Marketplace

- Led backend architecture and managed the engineering team for a scalable aviation parts marketplace platform.
- Designed and developed microservices using Python, FastAPI, and PostgreSQL.
- Implemented high-performance product search and filtering using Typesense.
- Integrated AI-driven workflows with OpenAI, Gemini, and PydanticAI for automation and structured processing.
- Designed and deployed cloud-native infrastructure on GCP using K3s and Traefik.
- Implemented asynchronous task processing with Taskiq and Redis, and managed CI/CD pipelines for automated deployments. Integration test using Pytest
- **Technologies:** Python, FastAPI, PostgreSQL, Typesense, Redis, Taskiq, OpenAI, Gemini, PydanticAI, GCP, K3s, Traefik

Findit — Re-commerce Marketplace (Indonesia)

- Led architecture and backend development for a large-scale, real-time marketplace platform.
- Designed scalable backend services including chat synchronization, bidding workflows, payments, and delivery pipelines.
- Integrated Elasticsearch for fast product search, autocomplete, ranking, and filtering.
- Reduced overall infrastructure cost by optimizing API performance, DB query patterns, and AWS resource utilization.
- Implemented LLM-based product feature extraction using OpenAI to automate listing creation.
- Built seamless integrations with payment, logistics, and notification providers.
- Managed cross-functional backend/frontend/mobile engineering teams.
- **Technologies:** Python, Django, Next.js, PostgreSQL, Redis, Celery, Elasticsearch, AWS Amplify, AppSync, DynamoDB, Xendit, Lalamove, Twilio, Docker, Metabase.

Previea & Novara — AI-Powered Interview & Hiring Platforms

- Led backend development of AI-driven interview and recruitment platforms.
- Architected scalable microservices using Python, Go, FastAPI, PostgreSQL, PGVector.
- Integrated OpenAI, Anthropic, and Gemini for question generation, scoring, and evaluation.
- Built vector-based semantic search pipelines using PGVector.
- Designed production infrastructure with Traefik, Docker, and AWS.
- Managed CI/CD, monitoring, and release workflows.
- **Technologies:** Python, Go, FastAPI, PostgreSQL, PGVector, Traefik, AWS, OpenAI, Anthropic, Gemini

Tech Lead, HealthOS Ltd. **Feb 2020 - Mar 2024**

OMIS — Hospital & Pharmacy SaaS System

- Developed backend services for hospital, pharmacy, and diagnostic management workflows.
- Integrated Elasticsearch for fast, accurate medical and inventory search.
- Built frontend modules interfacing with complex backend API workflows.

HealthOS — B2B Pharma Distribution Platform (10,000+ daily active pharmacies

- Led backend, frontend, and mobile engineering teams.
- Designed a complete backend architecture focused on reducing API latency (<500ms under heavy load).
- Built a self-hosted PostgreSQL replication cluster with automated failover.
- Developed logistics apps with real-time rider tracking, map integrations, and location events.
- Delivered internal admin systems with automated invoice printing (Raspberry Pi).
- **Technologies:** Django, DRF, PostgreSQL, Redis, Elasticsearch, Celery, AngularJS, Next.js, React Native, OneSignal, AWS S3.

Software Engineer, Interconnection Ltd. **Mar 2017 - Jan 2020**

TouchBase — Field Communication & Reporting Tool
GuitarMote — Guitar Marketplace & Collection Platform

- Developed backend business logic and REST APIs.
- Implemented Elasticsearch to improve report search and retrieval.
- Built AngularJS frontend modules integrated with backend services.
- Implemented Elasticsearch for catalog search and filtering.
- Built supporting frontend UI components.
- **Technologies:** Python, Django, DRF, Redis, Celery, Elasticsearch, PostgreSQL, AngularJS.

EDUCATION

B.Sc. in Computer Science & Engineering **Jan 2012 - Jan 2017**

Mawlana Bhashani Science and Technology University, Tangail, Bangladesh

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ADDITIONAL INFORMATION

- **Technical Skills:** Python, Go, Django, Django REST Framework, FastAPI, PostgreSQL, PGVector, Redis, DynamoDB, Elasticsearch, Celery, GraphQL, AWS (EC2, RDS, S3, Lambda, Amplify, Elasticache, CloudFront, Cloudformation, ECS, EKS), GCP, Docker, Traefik, Microservices, System Design, CI/CD, Real-time Systems, LLM Integrations (OpenAI, Anthropic, Gemini)
- **Languages:** English, Bengali.
- **Other Skills:** Technical Leadership, Team Mentorship, Architecture Ownership, Performance Optimization Strategy, Release & Deployment Management, Cross-functional Communication, Project Planning, Code Review & Quality Standards, Sprint Leadership, Stakeholder Alignment

OTHER PROJECTS

- Edbase - React Native base Mobile app for LMS
- GrainMarketPlace - A Marketplace for trading grain in australia