Liston Fermi

Backend Engineer

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Chennai, India | Open to remote | IST (UTC+5:30), 5+ hrs overlap with CET, 4+ hrs with US ET

Summary

Backend engineer with 2+ years building and shipping production systems in NestJS, TypeScript and PostgreSQL for international clients across South Korea, the UAE and India. Experience spans large-scale marketplace integrations, event-driven ingestion pipelines and multi-tenant operations platforms, working directly with client stakeholders across time zones.

Technical Skills

Languages: TypeScript, JavaScript, SQL
Backend: NestJS, Node.js, Express.js, REST APIs, Microservices, Event-Driven Architecture
Data: PostgreSQL, MongoDB, Apache Kafka, RabbitMQ
Cloud & DevOps: AWS (EventBridge Scheduler, S3, EC2), Docker, Kubernetes, GitHub Actions, NGINX
Auth & Integrations: Okta, Keycloak, OIDC, Amazon SP-API, Shopify, Microsoft Graph API, GoRules
Frontend: React, Next.js, Redux Toolkit

Experience

Binaryveda Apr 2024 – Present
Backend Engineer *Remote, India*

- **Prinics** (Seoul, South Korea) | *Prima* — Kodak-licensed photo printers and cameras, sold worldwide Apr 2024 – Jun 2025
  - Built the sales-data platform that replaced a daily manual process in which regional teams and interns downloaded reports from **11 marketplace dashboards** and re-keyed them into a shared Excel workbook
  - Designed the strategy-pattern integration layer all marketplace connectors plug into, with shared order and sales job services resolving a per-marketplace fetch/transform/persist strategy at runtime; shipped 6 connectors personally — **Amazon SP-API** (15 country marketplaces across NA, EU and FE), **Shopify**, **Cafe24**, **Rakuten** and **Mercado Libre**
  - Normalized ∼**50K orders/day** plus inventory, bestseller-ranking and review feeds into a canonical **PostgreSQL** schema, reconciling incompatible fee, fulfillment and settlement models across marketplaces, with revenue converted to KRW at live exchange rates
  - Eliminated Amazon SP-API throttling failures on multi-hour monthly jobs by decoupling extraction from aggregation and partitioning jobs by region; added exponential backoff to the Mercado Libre connector
  - Scheduled recurring jobs on **AWS EventBridge Scheduler**, writing results into the client's live workbook via **Microsoft Graph API** so the sales team kept their existing tool with zero manual entry
- **Vector Globe** (Dubai, UAE) | *CarbonX* — carbon emission tracking platform for vehicle fleets Jun 2025 – Oct 2025
  - **Sole backend engineer** on a greenfield carbon-accounting platform — designed and shipped all three backend services from MVP to production in five months
  - Built the user and master-data services in **NestJS**/**PostgreSQL**, modeling organizations, vehicles, emission factors and reports, with **Keycloak**-backed role-based access scoping each client organization to its own fleet
  - Built a **Kafka** ingestion service consuming vehicle telemetry — speed, mileage, idling time — from upstream telematics systems into **MongoDB**, decoupling ingest bursts from the transactional API tier
  - Integrated the **GoRules** decision engine so CO_2 emission formulas could be changed without a code deploy, absorbing an emissions methodology that shifted repeatedly through the build
- **Elivaas** (Gurgaon, India) | *Hoppr* — field-operations platform for a 200+ property luxury villa operator Oct 2025 – Present
  - Backend engineer on a 3-person team building the internal operations platform now used daily by **1,000+ staff across 200+ properties**, replacing a barely-used third-party HR tool
  - Own the task and Learning & Development modules end to end — recurrence rules materialized by a nightly cron into **3,000–5,000 task assignments per day**, served through separate admin and staff APIs
  - Built **AWS S3**-backed photo submission and same-day due-time tracking for cleaning and uniform-compliance tasks across the property portfolio
  - Delivered attendance regularization and geofenced check-in flows on **NestJS** and **PostgreSQL**, with **Okta** (OIDC) as the identity provider

Projects

WeNet — Microservices social network | wenet.life | GitHub 2024

- Split into 5 independently deployed services (user, posts, messages, notifications, promotions) communicating asynchronously over **RabbitMQ**, with real-time chat on **Socket.IO**
- Containerized with **Docker** and orchestrated on **Kubernetes** (GCP GKE); **GitHub Actions** pipeline builds and publishes images on merge

Education

University College of Engineering, BIT Campus 2017 – 2021
B.E. Civil Engineering *Trichy, India*
Brototype 2023 – 2024
Full-Stack Development Program *Coimbatore, India*