

Subash S

+91-9786358111 | smashysubash@gmail.com | linkedin.com/in/subash07 | github.com/smashysubash

Summary

Backend engineer with production ownership across **Node.js, TypeScript, MongoDB, and AWS** — building traceability platforms, AI-backed consumer products, and enterprise integrations. Cut cloud spend by **35%** by building observability first, then auditing every resource across three providers. Experienced in production incident response, multi-cloud operations, and multi-tenant architecture. Seeking remote backend roles at product-focused companies.

Experience

Software Engineer

Vlinder.io (Intern → Associate Software Engineer → Software Engineer)

Jul 2023 – Present

Bengaluru, India

- Noticed cloud infrastructure had spread across **AWS, Azure, and DigitalOcean** with no unified view — deployed **Beszel** for cross-provider monitoring, audited every resource against actual utilisation, and cut monthly spend by **35%**; self-initiated, no external direction
- Built a consumer-facing **AI provenance chat** — back-label photo triggers OCR extraction, supply-chain batch resolution, then grounded **LLM narration** through a four-model failover chain; context held client-side so follow-up questions cost one LLM call, zero backend calls
- Designed a **multi-tenant SaaS architecture** from scratch with isolated databases per tenant — chose this over shared-schema for data separation, handled connection pooling through application-layer routing; **10+ production tenants** live
- Cut dashboard query time by **30%** by restructuring MongoDB aggregation pipelines — moved **\$match** before **\$lookup** and applied compound indexes on high-volume reporting queries
- Traced a cascading production failure to a downed **Redis** instance and restored all dependent services within **one hour** with no data loss
- Built and operated backend services for a **supply-chain traceability platform** tracking **3B+ serialised product units** — GS1-compliant serialisation, NFC-based cryptographic product verification, and real-time authentication APIs
- Built async pipelines with **BullMQ** for scheduled reports, batch jobs, and email/SMS notification delivery with retry handling
- Independently deployed **Wazuh** security monitoring — log aggregation, threat detection, and alerting across production environments; no external direction
- Led **Azure-to-AWS migration** — audited service dependencies, sequenced cutover, and consolidated three-provider infrastructure into a single deployment stack
- Delivered end-to-end features across **React, Node.js, and MongoDB**; migrated legacy admin app from CRA to **Vite**, cutting build time **5x**

Technical Skills

Backend: Node.js, TypeScript, Express.js, REST APIs, GraphQL, BullMQ, Webhooks, Cron Jobs, Async Processing

Databases: MongoDB (Aggregation Pipelines, Compound Indexing, Query Optimisation)

Cloud & Infra: AWS (EC2, ECS, S3, Lambda, IAM), Azure, DigitalOcean, Docker, Nginx, PM2, DNS, SSL/TLS, Load Balancing

DevOps: Git, GitHub Actions, CI/CD, Linux, Shell Scripting

Monitoring & Security: Beszel, Wazuh, Authentication, Rate Limiting, Incident Response

Frontend: React.js, React Native, TypeScript, TailwindCSS, Vite

Domain: GS1 Serialisation, Supply Chain Traceability, NFC Authentication, SAP Integration, LLM Integration

Education

National Engineering College

B.E. Computer Science Engineering | CGPA: 8.52/10

Tamil Nadu, India

2020 – 2024