

JATINJIT SINGH

Senior Full-Stack Engineer · Python · React / Next.js · Real-Time Systems · AWS / GCP

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Visa: Engineer / Specialist in Humanities / International Services (valid, no new sponsorship required)

PROFILE

Full-stack engineer with 8+ years shipping and operating production systems in Japan, specializing in Python backends (FastAPI, Django) with React/Next.js frontends. Built real-time streaming serving 5,000+ concurrent users, a multi-tenant SaaS platform end to end, and data pipelines behind consumer apps with 30,000+ registered users. Works both independently as a product owner and within cross-functional teams on monthly release cycles.

EXPERIENCE

SMALLWORLD Inc. | *Software studio, consumer & B2B platforms* | Nagoya, Japan

2019 – Present

Senior Software Engineer

- **Cut visa-application processing from a full day to under 30 minutes** by designing and shipping Visa Cloud, a multi-tenant SaaS for Japanese immigration paperwork (COE, renewals). FastAPI/Django backend with tenant isolation and RBAC, automated PDF generation, and React multi-step forms; deployed and operated on AWS.
- **Scaled live audio streaming to 5,000+ concurrent listeners per event** by architecting Gayar's streaming stack from scratch (SRS, Nginx RTMP) with a WebSocket layer synchronizing live commentary and audience state across all clients.
- **Grew Stargroup to 10,000+ registered / 5,000+ weekly active users** by owning the API layer, machine-performance data pipelines, real-time frontend visualizations, and push notifications across 5+ years of monthly releases.
- **Enabled emergency-services dispatch within seconds of a user alert** on Protect (family-safety iOS app), integrating real-time GPS tracking, server-side Apple IAP validation, and a parallel notification pipeline to family and emergency services.
- **Reduced deployments and infra debugging from full days to minutes** by migrating all environments to Terraform-managed IaC across AWS (EC2, S3, RDS, Lambda, SNS, CloudFront, VPC, IAM) and GCP (Cloud Run, Cloud SQL, GCS), wired into GitHub Actions CI/CD with CloudWatch + Sentry observability.
- **Eliminated a failing vendor dependency and its recurring cost entirely** by replacing a Dropbox-based sync pipeline with self-hosted Syncthing in Docker, cutting sync failures from several per week to effectively zero.
- **Maintained long-term product ownership** of Tamakoshi (30,000+ registered users), shipping monthly releases through 2024 with in-seat ordering, performance analytics, and push notifications.

Software Engineer

- **Replaced a fully manual client-reporting process with a live data pipeline** by building Python/Django REST APIs to ingest, parse, and visualize machine CSV data, which remains the foundation of Stargroup's data layer today.
- **Shipped the first production versions of Tamakoshi and Stargroup** (dashboards, push notifications, in-seat ordering), laying the foundation for platforms that later scaled to 30,000+ and 10,000+ registered users.

Expostore | Bangalore, India

2016 – 2017

iOS Developer

- **Built an internal B2B inventory-management iOS app in Swift**, the entry point into a career now spanning mobile, backend, and cloud infrastructure.

TECHNICAL SKILLS

Backend	Python, FastAPI, Django, Node.js, NestJS, REST / OpenAPI design
Frontend	React, Next.js (App Router, SSR), TypeScript, Zod
Real-Time	WebSocket, Server-Sent Events, SRS Server, Nginx RTMP
Database	PostgreSQL, MySQL, Firebase / Firestore
Cloud	AWS (EC2, S3, RDS, Lambda, SNS, CloudFront, VPC, IAM, CloudWatch), GCP (Cloud Run, Cloud SQL, Compute Engine, Cloud Functions, GCS)
DevOps	Docker, Terraform, GitHub Actions CI/CD, Linux
AI Integration	OpenAI API, Anthropic Claude API (production integrations)

LANGUAGES

English: full professional proficiency

Japanese: basic comprehension, actively studying

PERSONAL PROJECTS

- **Local LLM & home lab:** Ollama, ComfyUI + Stable Diffusion workflows, HuggingFace vision pipeline with fine-tuning experiments; self-hosted Proxmox stack with Home Assistant energy dashboards.