

NIKESH KHATRI

Software Engineer · Django / DRF · React & TypeScript · Multi-tenant SaaS
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PROFILE

Software engineer with two years building production multi-tenant SaaS and operational platforms for Nepali businesses and public institutions. I specialise in turning statutory and accounting rules — income-tax and SSF/SST payroll, VAT and IRD/CBMS billing, double-entry ledgers, government file routing — into correct, auditable software, with tenant isolation, automated testing and reproducible deployment as defaults.

TECHNICAL SKILLS

Languages	Python, TypeScript, JavaScript, SQL
Backend	Django, Django REST Framework, NestJS, Celery, REST / OpenAPI, JWT & OAuth
Frontend	React, Next.js, Vite, Tailwind CSS
Data	PostgreSQL (incl. row-level security), MySQL, Redis, Prisma, multi-tenant data modelling
Testing	Pytest, Vitest, Playwright
Delivery	Docker & Compose, Nginx / Caddy, GitHub Actions, CI/CD, Git, code review

EXPERIENCE

Goodwish Engineering Pvt. Ltd.

Software Engineer (Contract)

Software Engineer

Lalitpur, Nepal

July 2026 – Present

August 2024 – July 2026

- Delivered production features across multi-tenant attendance and payroll, parking, government file-tracking, education and content-management products using Django/DRF, React, Next.js, TypeScript and PostgreSQL.
- Modelled Nepal's Darta / Chalani / Tippani government file-routing rules into a Django workflow engine with office-, role- and stage-scoped permissions, so a clerk in one office can never read or act on another office's records.
- Built a tenant-aware payroll engine implementing Nepal income-tax slabs, SSF/SST contributions, overtime policy and accountant sign-off, with generated payslips and statutory reporting.
- Integrated ADMS/RFID biometric terminals with the attendance API, hardening ingestion endpoints with device authentication, throttling and replay-safe logging after finding unauthenticated device writes in the original design.
- Corrected parking revenue reporting by fixing how voided and unbilled records were counted, and added soft-delete protection.
- Raised reliability across products through JWT refresh flows, API authorisation and tenant scoping, request throttling, secret scanning, reproducible Docker builds, automated backups and GitHub Actions deployment.
- Collaborated with engineers, designers and project managers across backend, frontend and infrastructure repositories; reviewed code and owned features from design through deployment and production support.

EDUCATION

BSc in Computer Science & Information Technology — Prime College, Tribhuvan University

2020 – 2025

SELECTED PRODUCTS

Mero Pasal — Multi-tenant Retail SaaS for Nepal

2026

Django · DRF · PostgreSQL row-level security · React · TypeScript · Celery · Redis · Docker · Caddy · Playwright

- Built a multi-tenant retail platform with per-shop subdomains, branch-aware staff permissions and Bikram Sambat reporting, covering sales, catalog, inventory, purchasing, customer khata credit, VAT register and day-close.
- Eliminated a class of cross-tenant data-leak bugs by moving isolation from application-layer filters to PostgreSQL row-level security, backed by regression tests that fail if any query escapes tenant scope.
- Added a tenant-controlled storefront with OTP customer login, promotional pricing and idempotent checkout, so a retried order request can never create a duplicate sale.

Garment Manufacturing ERP

2026

Django · DRF · PostgreSQL · React · TypeScript · Celery · Redis · Docker · Playwright · ReportLab

- Built a self-hostable ERP spanning merchandising, orders, costing, procurement, inventory, production, quality, shipping, HR/payroll and accounting.
- Implemented the accounting core — double-entry ledger posting, receivables aging, P&L, balance sheet, VAT returns and IRD/CBMS e-billing — so invoices, payments and stock movements reconcile without manual journal entries.
- Designed barcode-first shop-floor logging with WIP tracking, piece-rate/SAM workflows, QC inspection and rework loops, so operators record production in seconds rather than filling forms.

Custom Robot Voice Ecosystem

2026

NestJS · Next.js · React · Flutter · Prisma · PostgreSQL · Redis · Docker

- Built a cross-platform voice system — NestJS backend, Next.js admin portal, browser client and Flutter robot app — with real-time gateways, PCM audio streaming, AI tool-calling and organisation-scoped device sync.