Sreeshanth Shimji

Senior Software Developer | Python Backend Engineer

Kochi, Kerala, India | +91 96336 10617 | sreeshanthshimji.s1996@gmail.com | linkedin.com/in/sreeshanth-shimji

Professional Summary

Senior Software Developer with 8+ years of experience building scalable, secure backend systems in Python. Specialised in Django, Django REST Framework and FastAPI, with deep hands-on work in multi-tenant SaaS architecture, REST API design, database modelling and AWS cloud deployment.

Recently built the backend of a multi-tenant healthcare integration platform serving about 1 lakh tenants, thousands of third-party integrators and nearly 100 API endpoints. Strong in data modelling across PostgreSQL, MySQL and Sybase, asynchronous processing with Celery and Redis, real-time features with WebSockets, and CI/CD with Docker and GitHub Actions. Known for clean, maintainable code, rigorous code reviews and fast, reliable delivery.

Technical Skills

- **Languages:** Python, JavaScript, TypeScript, SQL, Perl, HTML, CSS
- **Backend Frameworks:** Django 5, Django REST Framework, FastAPI, Django Channels, SQLAlchemy, Pydantic
- **API Development:** RESTful APIs, OpenAPI/Swagger, API versioning, WebSockets, webhooks, FHIR (healthcare interoperability)
- **Architecture:** Multi-tenant SaaS, multi-database routing, service-layer design, asynchronous task processing
- **Databases:** PostgreSQL, MySQL, Sybase SQL Anywhere, Redis; schema design, migrations (Django, Alembic), query optimisation
- **Async & Messaging:** Celery, Redis, RabbitMQ, Daphne, cron jobs
- **Security & Auth:** JWT (SimpleJWT, token blacklist), OAuth2, AWS API Gateway keys, role-based access control, MFA, rate limiting, audit logging, ISO 27001 practices
- **Cloud & DevOps:** AWS (ECS Fargate, API Gateway, RDS, ECR, S3, EC2, IAM, ALB, NLB), Google Cloud Platform, Docker, Docker Compose, Terraform, Gunicorn, Nginx

- **CI/CD & Monitoring:** GitHub Actions, Bitbucket Pipelines, Datadog APM and structured logging
- **Testing & Quality:** pytest, CI coverage gates, code review, PR review workflows
- **Frontend:** Vue.js with TypeScript, React.js
- **Data & Visualisation:** Pandas, Plotly Dash
- **Integrations:** Zoho CRM, VoiceStack (CareStack), VAPI, Hume AI
- **Tools:** Git, Postman, PyCharm, VS Code, Cursor, Claude (AI-assisted development), Jira, Trello, Redmine, Linux, SSH

Professional Experience

TerrificMinds

Tech Lead | Oct 2026 – Present

Senior Software Developer | Apr 2025 – Oct 2026

- Built and maintained the backend of a multi-tenant dental practice integration platform for Centaur Software, serving about 1 lakh tenants and thousands of third-party integrators through nearly 100 API endpoints.
- Designed data models, REST APIs and multi-database routing across PostgreSQL, MySQL and Sybase SQL Anywhere, deployed on AWS ECS Fargate with GitHub Actions CI/CD.
- Led backend development of Edustack – First Principles, a multi-tenant learning platform used by 100+ organisations and thousands of learners.
- Delivered a peer recognition platform backend end to end within 2 days using AI-assisted development (Cursor, Claude).
- Contributing to the company's ISO 27001 implementation by defining the pull request review workflow for engineering teams.
- Review pull requests and set backend standards for service-layer structure, schema design and code formatting.

Vofox Solutions Pvt. Ltd., Kochi

Senior Software Developer | Aug 2019 – Mar 2025

- Joined as a Software Developer and progressed to Senior Software Developer, owning backend delivery for international clients in Australia, the USA and the Philippines.

- Led a team of 4 developers, guiding design, code quality and delivery while maintaining strong client satisfaction.
- Built full-stack applications with Django, Django REST Framework, Vue.js and React.js, including a high-traffic e-commerce admin platform used by 1,000+ staff.
- Managed deployments, servers and databases on AWS and GCP, delivering releases with minimal downtime.
- Coordinated with clients across time zones on requirements, timelines and delivery.

SparkSupport Infotech Pvt. Ltd., Infopark, Kochi

Junior Software Developer | Jun 2018 – Jun 2019

- Developed and delivered software solutions for international clients across the full SDLC, from requirements to deployment and maintenance.
- Worked in an Agile environment, providing proactive client support and timely updates.

Key Projects

Centaur Dental4Web API Platform – TerrificMinds

Senior Software Developer (Backend) | Python, Django REST Framework, FastAPI, PostgreSQL, MySQL, Sybase SQL Anywhere, Redis, Celery, AWS ECS Fargate, API Gateway, Terraform, Docker, GitHub Actions, Datadog

Multi-tenant integration platform that lets third-party applications securely read and write dental practice data, with an admin dashboard for organisations, partners, API keys and usage. Scale: about 1 lakh tenants, thousands of integrators, nearly 100 API endpoints.

- Designed and developed backend services that give third-party integrators access to patient, appointment, clinical and financial data.
- Built Django REST Framework APIs for integrator onboarding, tenant management, AWS API key lifecycle, role-based admin access, audit logs and Zoho CRM tenant sync.
- Developed the FastAPI integration layer for patients, appointments, treatments, clinical notes, finance, imaging, consent and FHIR resources, with request validation and a thin service layer.
- Implemented organisation-based request routing so each API call resolves to the correct per-practice Sybase SQL Anywhere database.

- Designed the data model for organisations, integrators, API keys, capability tiers and rate limits, including cross-database mappings between the PostgreSQL dashboard and the MySQL API configuration store.
- Enforced integrator authorisation with capability checks and configurable per-minute and daily rate limits tied to subscription tiers.
- Secured APIs with JWT authentication, AWS API Gateway keys and role-based access for super admin, organisation admin and admin users.
- Owned schema changes through Django migrations and Alembic, keeping dashboard and API configuration data consistent across services.
- Containerised services with Docker Compose and supported deployment on AWS ECS Fargate across development, UAT and production through GitHub Actions CI/CD.
- Added structured logging and Datadog APM tracing to correlate API requests across services.
- Wrote pytest coverage for the FastAPI services, enforced by an 80% coverage gate in CI.

Edustack – First Principles – TerrificMinds

Backend Lead | Django 5, Django REST Framework, SimpleJWT, MySQL, Redis, Django Channels, Daphne, Celery, Docker, AWS S3, Swagger, pytest

Multi-tenant training platform for dental practice teams, used by 100+ organisations and thousands of learners. Staff learn phone and case-acceptance skills through a sequenced curriculum, and real inbound calls are scored against the same competencies.

- Led backend development and owned the learner API and admin portal: authentication, users, organisations, curriculum, progress, scoring and reporting.
- Designed the MySQL schema for multi-tenant organisations, custom users and roles, sequenced modules, four activity types and per-user progress and results.
- Built the activity-queue service that assigns curriculum in order, caps unfinished work at eight activities and adds live calls only for eligible organisations and learners.
- Developed real-time AI roleplay and skill-boost flows over WebSockets with Django Channels and Redis, with Celery tasks that persist transcripts and map scores to competencies and checklists.
- Integrated VoiceStack (CareStack) for organisation-level OAuth, agent sync and end-of-call webhooks, enforcing a rule that patient identifiers are never stored; integrated VAPI and Hume AI.

- Implemented JWT authentication with token blacklisting, first-login onboarding and OTP-based password reset.
- Exposed versioned REST APIs documented with Swagger, and stored media on Amazon S3 with presigned URLs.
- Drove architecture and data-model decisions for module assignment, progress uniqueness and provider onboarding.

DSHOP – E-Commerce Platform (Australia) – Vofox

Backend Developer (team of 5) | Django, PostgreSQL, RabbitMQ, Celery, Vue.js, TypeScript, GCP, Bitbucket Pipelines

- Built the admin dashboard for a major Australian e-commerce platform serving millions of users and 1,000+ admin staff, covering orders, RMA, reports, shipping, spare parts, products, stock, containers, backorders and system logs.
- Designed RESTful APIs, managed the PostgreSQL database and used RabbitMQ with Celery for asynchronous tasks and cron jobs for automated data verification.
- Implemented Google Authenticator MFA, managed GCP servers and deployments, and set up Bitbucket Pipelines for code quality checks.

Kudos – Peer Recognition Platform – TerrificMinds (Internal)

Senior Software Developer (Backend) | Django, Django REST Framework, MySQL, JWT, OpenAPI, Cursor, Claude

- Designed and built the complete backend in 2 days using AI-assisted development, owning architecture, database design and API behaviour end to end.
- Implemented the recognition workflow: employees nominate teammates by category and skill, reviewers approve or reject, and approved recognitions award stars shown on profiles, the directory and the leaderboard.
- Delivered organisation-email login, JWT with blacklist logout, review queues, dashboard counts and superuser management of users, skills and categories, documented with OpenAPI.

Southwest Airlines – Spare Parts and Flight Issue Management – Vofox

Backend Developer (team of 3) | Django REST Framework, MySQL, AWS, Amazon S3, React.js

- Developed REST APIs and designed an optimised MySQL schema for spare-parts inventory and flight-issue tracking for a major US airline.
- Implemented multiple-database integration within a single application and automated SMTP email notifications; hosted on AWS.

LBC Express – Logistics Analytics Dashboard (Philippines) – Vofox

Backend and Data Developer | Python, Plotly Dash, Pandas, Docker, AWS EC2, Gunicorn, Nginx

- Built an interactive analytics dashboard for courier and cargo operations, with real-time updates through Dash callbacks.
- Optimised Pandas processing of large CSV files and deployed with Docker, Gunicorn and Nginx on AWS EC2.

Other Projects – Vofox

- **Redmine PMS Upgrade (Ruby on Rails, MySQL, AWS):** Upgraded a heavily customised internal Redmine instance to the latest version, fixing broken features and migrating the MySQL schema.
- **D2Models E-Commerce (Perl, Mason, MySQL):** Developed backend modules for an online store using a modular, object-oriented Perl architecture with query optimisation and indexing.

Education

- **Bachelor of Technology, Computer Science and Engineering** – Gurudeva Institute of Science and Technology, Puthuppally, Kottayam | 2014 – 2018
- **Higher Secondary (Plus Two), Computer Science** – SNDP HSS, Udayamperoor | 2012 – 2014

Awards and Activities

- Stellar Performer Award (2023) and Service Award (2024), Vofox Solutions
- Central Committee Member at Vofox for 4 years; organised multiple company events

Languages

English (Proficient), Malayalam (Proficient), Hindi (Proficient), Tamil (Basic)