

MANISH SAH

FOUNDING PRODUCT ENGINEER

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SUMMARY

Founding Product Engineer with 7+ years building backend systems, cloud services and Linux-based IoT integrations. At KIPIO, owns the endpoint DLP agent and rebuilt the policy engine as a standalone service. Previously a Team Lead who mentored 5 developers and ran Scrum. Skilled in Python, async processing, BDD testing, AWS and GCP; works AI-first, with TDD and strict code review.

WORK EXPERIENCE

Founding Product Engineer — KIPIO

May 2026 – Present

- Built KIPIO's endpoint data loss prevention (DLP) agent as primary author, protecting sensitive data in employees' use of AI tools; owned it end to end, from architecture and desktop integration to packaging, installer and CI.
- Rebuilt the cloud policy engine as a standalone service, which evaluates activity against admin-defined policies in real time.
- Set up GCP infrastructure (GKE, Cloud Storage, Pub/Sub) with Terraform, plus deployment pipelines for these services.
- Delivered both systems in previously unfamiliar languages by working AI-first; set the coding conventions AI agents follow on the team, and kept quality high with TDD, strict lint gates and review on every PR.

Technologies: Rust, Go, GCP (GKE, Cloud Storage, Pub/Sub), Terraform, GitHub Actions

Backend Software Engineer → Software Development Lead → Team Lead — Elsieht

Dec 2020 – May 2026 (Development Lead from Jul 2023, Team Lead from Mar 2024)

- Combined team lead, tech lead and Scrum Master roles for a team of 5: sprint planning, breaking business requirements into technical tasks, code reviews, and unblocking developers.
- Led the team that took Elsieht Positioning (GPS-independent geolocation using cellular signals, with spoofing detection) from proof of concept to production, then extended and improved the design; contributed code and guided implementation.
- Coordinated with product, QA, DevOps and customer support to deliver features end to end; technically led the device telemetry pipeline work, guiding and reviewing its implementation.
- Integrated a newer 4G modem into Halo: built APIs for its features (e.g. limiting network technology to 3G), implemented with AT commands.
- Built per-device usage metering (connection time) behind admin metrics and usage-based billing.
- Built Python services for Linux-based IoT devices and Flask microservices (MongoDB, Redis), with async workflows on Celery and RabbitMQ.
- Reduced CPU usage from 90% to 40% and improved API response times by 20% through profiling and tuning.
- Automated API testing with Behave (BDD) to 90%+ coverage on critical endpoints; deployed on AWS with Jenkins CI/CD.

Technologies: Python, Flask, MongoDB, Redis, Celery, RabbitMQ, AWS, Jenkins, Behave, Docker

Associate Software Engineer → Software Engineer — Jeevee Health Pvt. Ltd

May 2019 – Dec 2020 (promoted to Software Engineer, Aug 2020)

- Collaborated with the Solution Architect on initial product design, then built the platform's core backend services.
- E-commerce: customer ordering, an admin backend to manage orders, and a delivery backend to assign orders to delivery staff.
- E-health: online appointments for patients, doctor and schedule management for clinics, and vaccination bookings.
- Integrated payments and product management (stock, discounts); built an admin CMS and a blood request system that notifies matching donors.
- Worked with DevOps to set up development and production servers and deploy hot fixes.

Technologies: Python, Flask, PostgreSQL, Celery, Asyncio, AWS S3, AWS EC2, Git

SKILLS

Core:	Python, Flask, REST API Design, MongoDB, PostgreSQL, Redis, Celery, RabbitMQ, AWS (EC2, S3, CloudFront, Lambda, Cognito, EventBridge), Docker, Behave (BDD), Pytest, Git
Production, AI-assisted:	Rust, Go, GCP (GKE, Cloud Storage, Pub/Sub), Terraform, GitHub Actions
Familiar:	Bash, JavaScript, Jenkins, Kubernetes, Playwright, Unittest, Linux service integration, Cellular modem integration (AT commands)
AI-Assisted Development:	Claude Code, coding conventions for AI agents, TDD with AI agents

EDUCATION

Bachelor in Computer Science and Engineering — Patuakhali Science and Technology University

2015 – 2019 | CGPA: 3.77 / 4

OPEN SOURCE & PROJECTS

- Open source:** 11 merged PRs, including 9 to Canonical cloud-init (unittest-to-pytest migration), a feature in Cadwyn (API versioning for FastAPI), and a fix in Google gcp_scanner.
- Dev & Beyond** (youtube.com/@DevAndBeyond) — tutorials on AWS services and Python, covering theory and hands-on labs.