Vaishnav Ghenge

Baner, Pune, Maharashtra 411045

📞 +918999467933 ✉ vaishnavghenge@gmail.com in linkedin.com/in/vaishnavghenge 🌐 https://vaishnavghenge.com

Experience

Software Developer Sept. 2024 – Present
Noovosoft Technologies LLP *Pune, Maharashtra*

- **Distributed Systems & Reliability:** Built fault-tolerant distributed systems including a serialized **Celery** pipeline that eliminated a 53% **race-condition** failure rate in Sanitel's **SOAP integration**, achieving $> 99\%$ synchronization reliability, and architected a hybrid Split-Range weather system resolving a 5-day data gap for real-time agronomic models.
- **Recurring Billing Engine:** Engineered a resilient recurring billing engine with retries, recovery workflows, and **Mollie** state sync; boosted subscription revenue reliability $\sim 30\%$ and reduced payment-support load 40%, while unifying legacy billing logic into a scalable **Django** module.
- **Migrations & Integrations:** Led major data & system migrations including DTN $\rightarrow$ **OpenMeteo** and integrations with Sanitel, JoinData, and Arsia (**REST + SOAP**), improving data accuracy 25% and reducing ingestion latency 35%, plus delivering multi-region PDF invoicing with advisory locks and flawless EU VAT compliance.
- **Performance & Dev Velocity:** Accelerated system performance & developer velocity by integrating `uv` into CI/CD, cutting **Docker** image sizes 60% and speeding builds 45%, and removing ORM bottlenecks to reduce database query volume $\sim 85\%$ on hot endpoints.
- **International Frontend:** Delivered scalable international frontend architecture by replacing country-hardcoded logic with a "connection source" system; enabled Spain & Netherlands rollout with unified KVK/UBN validation, and built robust **RxJS** pipelines preventing UI crashes during external API outages.
- **Product Engineering & UX:** Improved accuracy & UX of high-stakes business flows by refactoring the emissions Loadingsheet engine for real-time precision calculations, implementing global loading-state infrastructure, fixing international UI regressions, and enforcing dynamic subscription access control across the web platform.
- **Mobile Ecosystem:** Modernized the mobile ecosystem by leading the migration to **Expo SDK 54**, engineering an edge-to-edge Android layout framework, standardizing safe-area utilities, migrating key components to **TypeScript**, and maintaining a complex offline-first **MobX** architecture for mission-critical field workflows.

Projects

Servio - Self-Hosted Systemd Service Manager | *Go (Golang), Linux (Systemd), WebSocket, HTML/CSS* **Dec. 2025**

- **Infrastructure Automation:** Built a lightweight web UI in Go to orchestrate Linux systemd services, enabling one-click deployment, monitoring, and process management without cloud dependency.
- **Real-Time Observability:** Engineered a live log streaming pipeline that pipes journald/stdout logs to the browser in real-time for instant debugging.
- **CI/CD Integration:** Implemented automated Git workflows to clone repositories, inject environment variables, and build binaries directly on the server.

Vartalaap - Peer-to-Peer Video Calling App | *Django, Next.js, WebRTC, WebSockets* **Oct. 2023 – May 2024**

- **Real-Time Architecture:** Developed a video calling platform with WebRTC and live captioning for accessibility.
- **AI Optimization:** Deployed fast-whisper (C++ optimized Whisper clone) on GCP for low-latency transcription, cutting latency by 80%.
- **Signaling Infrastructure:** Implemented WebSocket signaling server and media handling for robust connection management.

Technical Skills

Programming Languages: Python, TypeScript, Go (Golang), JavaScript, Java, C++
Frameworks & Libraries: Django, Express.js, Angular, React, Next.js, WebSocket, WebRTC
Databases: PostgreSQL, MySQL
Cloud & DevOps: AWS (EC2, S3, EBS), Docker, GCP (Compute Engine), DigitalOcean (Droplets), Nginx, GitHub Actions
Tools: Git, JIRA, VS Code, IntelliJ, PyCharm, Claude Code, Cursor

Education

Pune University **2021 - 2024**
*Bachelor of Engineering in Computer Engineering, **cgpa 8.8*** *Pune, Maharashtra*

Government Polytechnic, Amravati **2018 - 2021**
*Diploma in Computer Engineering, **96%*** *Amravati, Maharashtra*