

Prem Hagaragi

Software Engineer / Full-Stack Product Development • Microservices • React • Node.js • Python • Cloud

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Professional Summary

Software Engineer with 3+ years of **product development** experience building **full-stack applications** with **microservice architectures** across **Node.js/TypeScript, Python, and React**. Applies **OOP, SOLID principles, and SOA patterns** to deliver maintainable, testable systems. Builds **reusable component libraries shared across multiple products**, follows **test-driven development**, and deploys through automated **CI/CD pipelines** to cloud. Bridges product, UX, and engineering, leveraging **AI-assisted workflows** (Copilot) to accelerate SDLC execution.

Experience

Software Engineer

Apr 2026 – Present

MARQAIT AI (MARQAIT AI LLP) — AI-Native Product Company

- Architected a **microservice-based SaaS platform** following **SOA and domain-driven design** — defined service boundaries, inter-service contracts, and data ownership across bounded contexts for independent deployability and horizontal scaling.
- Developed backend services in **Node.js/TypeScript** (NestJS, Express) and **Python** (FastAPI) with **RESTful APIs**, JWT/OTP auth, RBAC, and typed contracts (Zod, Pydantic); integrated **PostgreSQL** (Prisma), **MySQL**, and **Redis** for caching and pub/sub eventing.
- Engineered a **shared React 19 + TypeScript component library** (Next.js App Router) consumed across multiple product surfaces — dashboards, workflow builders, content-approval systems — applying **SOLID principles** and design patterns (Strategy, Observer, Factory) to ensure reusability and testability.
- Practiced **test-driven development** using Vitest and React Testing Library; wrote unit, integration, and API contract tests achieving 85%+ coverage; owned **verification & validation** workflows for each release cycle.
- Partnered with **UX designers and product managers** — reviewed wireframes for feasibility, proposed interaction patterns, and ensured design intent translated faithfully into production UI.

Software Developer

Aug 2023 – Mar 2026

Minsyst Consulting Private Limited — Enterprise & E-Commerce Products

- Built **full-stack product features** across multiple client engagements using React, Next.js, and Angular on the frontend with Node.js microservices on the backend — contributing to **20% higher user engagement** and **15% improved retention** (measured via analytics dashboards).
- Designed and optimized **RESTful APIs** for frontend-backend integration; tuned **PostgreSQL and MySQL** queries, implemented client-side caching strategies, and reduced data overhead by **25%** while improving page responsiveness — applied **design patterns** (Repository, Adapter) for clean data-access layers.
- Performed **enterprise-scale debugging and production support** — diagnosed critical issues across distributed services using structured logging, APM tools, and **reverse-engineering** of legacy codebases for targeted fixes without regressions.
- Managed end-to-end feature delivery across **Agile (Scrum)** sprints; automated CI/CD pipelines with GitLab CI deploying to **AWS** (EC2, S3, CloudFront) and **Azure App Services**; coordinated releases with product, design, and operations teams.

Projects & Open Source

Market Map Maker — Interactive Market Landscape Platform

- Built a full-stack **Next.js + TypeScript** SaaS platform enabling users to create, manage, and publish interactive market landscape maps; implemented an **AI-powered data enrichment pipeline**, drag-and-drop canvas with real-time state synchronization (**Zustand**), spreadsheet-style CRUD, and multi-format export (PNG, PDF); deployed on **Vercel** with **Supabase** (PostgreSQL + Auth + Storage) as the backend.

Bloort.ai — RAG-Powered Chatbot Builder

- Developed a production **RAG chatbot platform** that converts any URL into a deployable chatbot in under 60 seconds; engineered the ingestion pipeline (**Firecrawl** scraping, **LangChain** recursive chunking), vector storage (**Pinecone**), dense retrieval with **OpenAI embeddings** (recall@1: 95%), and an **eval harness** comparing retrieval strategies — built with **Next.js**, deployed on **Vercel**.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), Python, HTML5, CSS3

Backend & APIs: Node.js (NestJS, Express), Python (FastAPI), **RESTful APIs**, JWT/OTP auth, Pydantic, Zod

Frontend: React.js (18/19), Next.js (App Router), Angular; Redux, Zustand, Context API, TanStack Query; Tailwind CSS, Material UI, shadcn/ui

Databases: PostgreSQL, MySQL, Redis, Supabase, Firebase, Prisma ORM, SQLAlchemy

Cloud & DevOps: AWS (EC2, S3, CloudFront), Azure (App Services), Docker, GitHub Actions, GitLab CI/CD, Git, Vite, Webpack

Engineering Practices: OOP, SOLID, Design Patterns (Strategy, Observer, Factory, Repository), SOA, Domain-Driven Design

Testing & Quality: TDD, Vitest, React Testing Library, Jest, Pytest; Production Debugging, Reverse Engineering, APM

Productivity: Agile/Scrum, Code Reviews, **GitHub Copilot**, AI-Assisted Development Workflows

Education & Certifications

Gogte Institute of Technology, Belagavi — B.E., Computer Science — CGPA: 8.1/10

2019–2023

Certs: Micro Front-End Architecture with React (LinkedIn) • CI/CD for Beginners (SimpliLearn, 2025)