

Neeraj Kulkarni

Fullstack Software Engineer

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Fullstack Software Engineer with experience in Python / FastAPI microservices, React, cloud and AI applications. Proven ability to work across the stack, building high-throughput data pipelines, configuration-driven UI frameworks, async processing systems, and secure service architectures. FedRAMP High compliance contributor with hands-on experience with Kubernetes, Kafka, Redis in production environments.

Skills

Languages: Python, JavaScript, TypeScript, Java

Frameworks: FastAPI, NextJS, ReactJS, Redux Toolkit, Spring Boot

AI Tools: OpenAI, Anthropic LLMs, RAG, LangChain, LangGraph, Hugging Face, Ollama

Data: PostgreSQL, Oracle SQL, Apache Kafka, Redis, Supabase, ChromaDB (Vector DB)

Devops: Kubernetes, Docker, Jenkins, Helm, Git, Liquibase, Consul, Vault by HashiCorp

Quality & Operations: Jest, Unit Testing, Micro Frontend, Module Federation

Experience

Fullstack Software Engineer

Pune, India

Qualys

July 2024 – present

- Core contributor to a data ingestion service using Python / FastAPI that processes third-party asset and vulnerability feeds for risk calculation and security dashboards.
- Built a LangChain + RAG-based schema transformation agent that automated mapping of third-party data contracts to internal models, eliminating 100+ manual engineering hours per cycle and improving mapping consistency by 85%.
- Identified and resolved the leading cause of integration deployment failures by building a centralized configuration management system which decoupled business logic from deployment artifacts.
- Designed and built a configuration-driven React micro-frontend supporting 60+ integration-specific workflows with runtime reconfigurability, reducing code complexity by ~90%.
- Contributed to FedRAMP High compliance hardening across 6 microservices implementing FIPS-compliant encryption, audit logging, and secret rotation via HashiCorp Vault.
- Prototyped a zero-trust data ingestion SDK that isolates partner data streams at the network boundary, ensuring secure third-party integrations.

Engineering Intern

Pune, India

Qualys

Jan 2024 – June 2024

- Resolved 50+ security vulnerabilities and memory leaks improving stability and code quality scores by 30%.
- Implemented platform-wide OAuth 2.0 and OIDC authentication for secure, password-less access control.

Projects

Conversational Knowledge Engine

Jan 2026

Built an AI document-intelligence platform with a FastAPI backend and Postgres. Optimized hybrid RAG for low-latency search and abstractive summarization, including persistent multi-session conversational memory.

FinBharat

June 2024

Built a region-agnostic financial model using Spacetimeformer with sentiment analysis. Standardized time-series stocks data, mapping historical pricing and 12 engineered technical features into mathematical embeddings for neural network ingestion.

Smart India Hackathon Finalist

Jan 2022

Integrated ML-based OCR scanning flows into the Ministry of Education's app. Developed the App Plugin in Java to automate textbook recognition, increasing accuracy for 100,000+ learners nationwide.

Education

Savitribai Phule Pune University

Aug 2020 – June 2024

BE in Computer Engineering Honors in Data Science

CGPA: 9.01

Publications

Protected Health Information Exchange using Subscription Model

Jan 2022

Decentralized Identity: Self-sovereign identity on Ethereum

Jan 2024

Leadership

- ACM Students Chapter Chair
- Google Developers Students Club Backend Head
- TEDx Performer - demonstrated communication and leadership skills