

Neel Mistry

📍 Sunnyvale, CA ✉ mistrynpk@gmail.com ☎ (510) 305-0444 [in neel-mistry](#) [mistryneel](#)

PROFESSIONAL SUMMARY

Senior Software Engineer with 9+ years building production platforms at scale, specializing in AI-powered application infrastructure and agentic AI systems. Experienced in full-stack development (Node.js, React, Python), compliance automation, and deploying containerized microservices on Kubernetes. Stanford AI Professional Program graduate with hands-on work building LLM-integrated tools and inference pipelines at Apple and Adobe.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL, Kotlin, Bash
Back End: Node.js, Express, FastAPI, Flask, GraphQL, gRPC, REST APIs
Front End: React, Next.js, Redux, TanStack Query, HTML/CSS
AI/ML: LLM API Integration, Agentic AI, MCP, RAG, Inference Pipelines
Databases: PostgreSQL, MongoDB, Redis
Cloud/DevOps: AWS (Lambda, EC2, S3), Docker, Kubernetes, Helm, CI/CD

EXPERIENCE

Senior Software Engineer

Adobe March 2026 - Present, San Jose, CA

- Designed and developed an agentic AI system for internal compliance auditors using Node.js, React, and Python (FastAPI), enabling autonomous audit workflows that reduce manual assessment time by 50% across SOC 2 and FedRAMP compliance frameworks.
- Architected multi-step AI agent workflows integrating LLM APIs for automated evidence collection, risk categorization, and compliance gap analysis, with structured output validation and human-in-the-loop review for audit-grade accuracy.
- Built a compliance automation platform providing a unified view of organizational compliance posture across SOC 2, FedRAMP, ISO, and PCI frameworks, replacing manual spreadsheet-based tracking with real-time dashboards in React.
- Developed containerized microservices (Docker, Kubernetes) with CI/CD pipelines for the compliance tooling stack, reducing environment provisioning time by 25%+ and enabling rapid feature iteration.
- Designed RESTful APIs and GraphQL endpoints in Node.js/Express, integrating PostgreSQL and MongoDB to aggregate risk data across 8 business units, with automated alerting for compliance drift.

Senior Software Engineer

Apple October 2025 - March 2026, Sunnyvale, CA

- Built a WebRTC-based P2P audio pipeline for an internal AI/LLM application using React hooks and Python FastAPI, replacing WebSocket streaming and reducing audio latency by 60%.
- Developed an AudioWorklet processing pipeline with dynamic ring buffering, offloading audio computation to dedicated worklet threads and improving stability across varying network conditions.
- Integrated external APIs into the Python inference server using httpx and Pydantic, expanding the internal MCP tool library with React components built on TanStack Query for optimistic UI updates.
- Reduced API response times by ~60% by implementing a Redis caching layer with configurable TTL in Express, paired with React Query's stale-while-revalidate pattern on the frontend.
- Containerized Python microservices (FastAPI, Celery) and React apps within Kubernetes using Helm charts, increasing deployment frequency by 40% through streamlined CI/CD and Envoy sidecar integration.

Senior Software Engineer

Walmart December 2022 - October 2023, Sunnyvale, CA

- Built an internal web application from scratch using Next.js, TypeScript, React, Node.js, GraphQL, and PostgreSQL, streamlining operations and reducing manual tasks by 20%.
- Refactored legacy codebase to improve code quality and feature reliability, reducing unnecessary test coverage by 20–30% while lowering production defect rate.
- Engineered backend workflow automation with AWS Lambda, EC2, and S3, integrating CI/CD pipelines and reducing server latency by 25%.

Senior Software Engineer

Doordash

January 2022 - September 2022, San Francisco, CA

- Redesigned login/signup flow using React, Redux, gRPC, and GraphQL, reducing user conversion drop-off by 25% and introducing fraud detection friction for high-risk geolocations.
- Developed backend rules in Kotlin to increase identity verification friction for fraud users, contributing to the organization's quarterly goal of reducing operational costs by \$0.04 per order.
- Created and reviewed 20+ architecture documents for React/GraphQL components, establishing cross-functional documentation standards adopted by 5 teams.

Software Engineer

Wells Fargo

October 2017 - January 2022, San Francisco, CA

- Led migration of 10+ customer-facing applications from jQuery to React, developing a cross-domain embeddable JS SDK for B2B theming and 20+ reusable ADA-compliant components serving 10M+ daily users.
- Published a universal build & deploy Node.js module (webpack) adopted by 25+ applications, standardizing CI/CD across the organization.

CERTIFICATION

Stanford University — AI Professional Program (2024–2025)

- XCS229 Machine Learning
- XCS224W Machine Learning with Graphs
- XCS236 Deep Generative Models

EDUCATION

Bachelor of Science in Computer Science & Technology

Gujarat Technological University - India · 2015