

VEDANT CHIDGOPKAR

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SUMMARY

Software Engineer with 4+ years building scalable systems across fintech and enterprise platforms from distributed payment microservices to production AI agents using LangChain, LangGraph, and RAG pipelines. Experienced across the full stack with deep expertise in backend and cloud infrastructure on AWS and Azure, working across Java, Python, Spring Boot, and React.

WORK EXPERIENCE

PayPal April 2025 – Present

Software Engineer II · San Jose, CA

- Built **Java/Spring Boot** repayment microservices on **Oracle** and **GCP** with **Redis** caching, processing **10M+ daily transactions** across 16 products in 8 countries with exactly-once execution guarantees.
- Delivered end-to-end **Spring Batch** reconciliation over **Kafka**, matching daily repayment event counts against Fineract SOR totals via COB events to detect silent data loss and guarantee per-product data integrity.
- Engineered **idempotent** request handling with fingerprinting, audit-trail replay, and automated failure recovery, eliminating duplicate-payment incidents across distributed repayment services.
- Shipped real-time data pipeline enriching **500K+ repayment events** with risk signals to power fraud detection and trigger automated payment holds via REST APIs, improving model recall by ~15%.
- Owned on-call rotation, ran canary deployments via **Harness** with **Docker**, monitored with **Datadog** and **Splunk**, and root-caused live incidents using **BigQuery** to ship fixes across multiple repayment services.

Oxmaint July 2024 – April 2025

AI Engineer · Sunnyvale, CA

- Architected production AI support agent in **Python** with **LangChain**, **LangGraph**, and **MCP-based tool calling**, integrating telemetry and internal RESTful APIs to automate 30% of repetitive support workflows on a multi-tenant CMMS platform.
- Designed **RAG pipeline** with **ChromaDB**, **OpenAI** embeddings, and **Pandas/NumPy** preprocessing, implementing document chunking and metadata filtering to lift retrieval accuracy by **60%** for technician troubleshooting.
- Deployed quantized local **LLM** with **PyTorch** and **Hugging Face Transformers** on **NVIDIA Jetson Orin Nano**, enabling sub-second edge inference for privacy-sensitive operations and removing external AI API dependency.
- Cut **Azure** infrastructure spend by **20%** and deployment time by **60%** through **Terraform** based IaC, **GitHub Actions** optimization, and caching high-volume read paths with **Redis**.

Berkshire Hathaway August 2023 – June 2024

Software Engineer · San Jose, CA

- Launched full-stack customer portal features using **Next.js**, **TypeScript**, and **GraphQL**, reducing client-side API traffic by **30%** through typed data fetching and batched backend requests.
- Hardened **Spring Boot** microservices with **Spring Security**, enforcing **OAuth 2.0** authorization with **JWT bearer tokens** and role-based access control across distributed services.
- Consolidated containerized applications on **AWS EC2** via **Docker**, standardizing production and staging environments to eliminate configuration drift in deployments.
- Optimized PostgreSQL query plans and MongoDB aggregation indexes, reducing transaction latency by **35%**.

Logicon Technosolutions June 2019 – July 2021

Software Engineer · Pune, India

- Developed responsive frontends in **React**, **HTML**, and **CSS** with reusable component libraries, delivering role-based portal experiences for 200+ business users.
- Implemented **Node.js** and **Express.js** REST services, owning service-layer logic, schema migrations, and end-to-end production support.
- Refactored **MySQL** schemas with targeted indexing and query optimization, cutting dashboard load times by **50%**.
- Automated **Jenkins** and **Kubernetes** CI/CD pipelines with integrated test suites, shortening release cycle time by **40%**.

EDUCATION

M.S. Computer Science, University of New Haven Aug 2021 – May 2023
West Haven, CT

B.E. Computer Engineering, Savitribai Phule Pune University Aug 2016 – May 2020
Pune, India

SKILLS

Programming Languages: Java, Python, SQL, TypeScript, JavaScript, Node.js

Backend & Architecture: Spring Boot, Hibernate, Express.js, Microservices, REST APIs, GraphQL, Kafka, Event-Driven Architecture, Distributed Systems, System Design, Scalability, Fault Tolerance, High Availability, Low-Latency Services, Concurrency

Databases: Oracle, PostgreSQL, MySQL, MongoDB, Redis, Query Optimization, Indexing, Schema Design, Transaction Processing, ACID

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Harness, CI/CD, Git

Observability & AI: Datadog, Splunk, Amazon CloudWatch, Elasticsearch, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), AI Agents, LangChain, LangGraph, Agent Orchestration, Model Context Protocol (MCP), Vector Databases, Prompt Engineering