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SUMMARY

Backend-focused Software Engineer with 5+ years of experience designing and scaling distributed systems, event-driven architectures, and AI-powered platforms. Thrives in high-ownership environments, consistently driving projects end-to-end from architecture to production with measurable impact.

SKILLS

Backend: Java, Python, Go, C++, gRPC, REST APIs, Microservices, Kafka, PostgreSQL, Redis, Opensearch, Airflow, DAG, LangGraph, Pinecone, AWS (DynamoDB, EC2, S3), GCP (BigQuery, Vertex AI).

Frontend: JavaScript, TypeScript, React, Next.js, Jest, Playwright, WebSockets.

Others: Docker, API Gateway & Platform Engineering, Distributed Systems, CI/CD (GitHub Actions), Observability (Splunk, Kibana), AI-Assisted Development.

WORK EXPERIENCE

CVS Health

11/2025 - Present

Software Engineer III

- Architected backend services (Python, FastAPI) powering AI agent orchestration across 5+ concurrent migration workstreams, designing for modularity and fault tolerance to support team-wide adoption.
- Engineered autonomous AI agents using LangGraph and Python to migrate legacy SAS/Teradata pipelines to BigQuery, reducing manual conversion time from 3 months to under 3 weeks per project.
- Orchestrated scalable ETL workflows via Airflow and Dataproc to execute BigQuery SQL transformations, optimizing data processing efficiency and ensuring robust automation.

American Express

10/2023 - 06/2025

Software Engineer II

- Redesigned large-scale rewards platform using a configurable engine (Java, Python), establishing code guidelines, improving security, reducing runtime, and boosted later development efficiency by 40%.
- Proposed and delivered a RAG-powered AI assistant by architecting and optimizing a multi-agent system with LLMs, Vector DBs, and LangGraph, centralizing knowledge from GitHub and Confluence.
- Designed and implemented an efficient event replay mechanism within a custom Kubernetes environment and reduced manual operational effort by 50% for a set of issues.
- Created and deployed an innovative event tagging system that automatically flagged events until their dependencies were cleared, which directly led to a 20% reduction in incident bug reports.
- Designed and led the development of multiple Card products (e.g., Clear, Uber, Dell, Adobe) to align with business expectations, focusing on features like threshold and accrual-based rewards.

FTC Solar

05/2019 - 08/2022

Software Engineer -> Software Engineer II

- Led product definition, launch, and long-term vision for initiatives, contributing with architecture (Python, FastAPI, C++, REST-APIs, Microservices), design patterns, reliability, and scaling techniques.
- Developed a Full-Stack application (NodeJS, React) including over 150 endpoints to interface with a web UI and SCADA (Modbus) facilitating data flow and control flow between sensors and control instruments.
- Engineered a robust, high-performance stack (Nginx, Unicorn) for the interaction/processing of 100+ network nodes with the mainframe, earning a nomination for the Presidential Award.
- Drove the transition from a monolithic codebase to a microservice-based architecture (SOA), designing and implementing new REST APIs with comprehensive unit testing.
- Executed a command processing strategy for simultaneous data from multiple nodes using MQTT, also enabling direct communication from a node to the UI, bypassing the backend for real-time dashboards.
- Took end-to-end ownership of deployment on Kubernetes (K8s), ensuring quality through rigorous testing, monitoring, and documentation while collaborating with product and design teams.

EDUCATION

Master's in Artificial Intelligence, *Arizona State University*

08/2022 - 12/2023

Bachelor's in Computer Science and Engineering, *National Institute of Technology Karnataka*

07/2015 - 05/2019