

SUMMARY:

Senior Software Engineer specializing in backend infrastructure, with hands-on experience building scalable APIs, AI-powered data platforms, and real-time conversational systems.

TECHNICAL SKILLS:

- **Backend** - Python, Django, FastAPI, Airflow, Celery, Livekit, Deepgram, Twilio, Firecrawl, Lambda, SQS, Pandas, Redis, Kafka, Logto Authentication, Docker, ECR, ECS, Github Actions
- **Database** - PostgreSQL, MongoDB, AWS Aurora RDS, Supabase
- **Frontend** - React

EXPERIENCE:

Individual Consultant | August 2025 - Present

Sr. Software Engineer - Healthcare AI Startup | March 2026 - Present

- **Leading the re-architecture of a healthcare data platform** supporting **1M+ patient records**, redesigning ingestion pipelines and data models to power an **AI-driven healthcare intelligence platform** for natural-language patient insights.
- **Building scalable FHIR/EHR ingestion pipelines** for multi-provider data normalization and **RAF score computation**, while optimizing **PostgreSQL** and ETL workflows for high-performance AI analytics.

SDE3/AI Engineer - Voice AI Startup | August 2025 - December 2025

- **Built a real-time multilingual Voice AI platform** for inbound, outbound, and web calls using **Twilio SIP, LiveKit (RTC), Deepgram (STT), LLMs, and ElevenLabs (TTS)**, enabling configurable voice agents; implemented **Firecrawl-based website/PDF ingestion** into a vector database using **AWS SQS** and **AWS Lambda** for asynchronous, context-aware conversations.
- **Improved platform reliability and multi-tenant security** by implementing **voicemail/beep detection** via RTC data channels, **tenant-level concurrency controls, RBAC, microservices/user authentication, Logto**, and **Row-Level Security (RLS)** across **FastAPI** services.

Sr. Software Engineer(Data Platform) - Aideo Technologies/Rule14 | January 2022 - August 2025

- **Led the development of a scalable healthcare data platform** by designing **FastAPI** services and architecting a centralized **AWS Aurora DataMart**, significantly improving data accessibility and accelerating Data Scientist workflows.
- **Owned end-to-end data ingestion, transformation, and egestion pipelines**, integrating external systems at scale while implementing **data governance, validation, and quality checks** that improved downstream ML model accuracy by **13%** through automated anomaly detection and alerting.

Software Engineer - Ajackus Consultancy | November 2020 - December 2021

- Built and deployed RASA-based AI chatbots integrated with WhatsApp, supporting production conversational workflows.
- Improved API performance by implementing Redis caching, reducing latency by **~80%**, and developed backend services using Django.

Software Engineer - Bulk MRO Industrial Supply Pvt. Ltd. | June 2019 - July 2020

- Developed backend APIs using Django/DRF for a procurement and logistics workflow system.
- Wrote Python-based **migration scripts** to move data from a legacy system to a new workflow management platform.