

Sajith Herath

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Skills

Languages: Python, Bash, SQL

Libraries: FastAPI, Pandas, Celery, Numpy, Agno, LangGraph, Pytorch, Tensorflow, scikit-learn, FFmpeg, OpenCV, Selenium

Databases: PostgreSQL, MongoDB, DynamoDB, Redis, ArangoDB, Chroma | **Observability:** New Relic, Grafana

Tools & Platforms: AWS (EKS, Step Functions, EC2, Lambda, Sagemaker), GCP, Docker, Kubernetes, Nginx, Apache Airflow

Experience

Lead Software Engineer, PrimeSens LLC – Colombo, Sri Lanka Apr 2024 – Jan 2026

- Designed the system architecture and led the development team to build LLM powered microservices for a Customer Relationship Management (CRM) platform, featuring intelligent lead scoring and an agentic AI chatbot that streamlined customer interactions through deal prioritization and automated actions
- Developed an analyzer for rent roll and T12 statements utilizing LLMs, automatically extracting tabular data from diverse PDF and spreadsheet formats and unifying inconsistent headers to accelerate real estate financial analysis

Senior Software Engineer, PrimeSens LLC – Colombo, Sri Lanka Aug 2021 – Apr 2024

- Reduced AWS server costs by 89% by designing a GPU accelerated video transcoding solution (an AWS MediaLive substitute), and engineered a real-time closed captioning engine utilizing speech-to-text machine learning models
- Developed multivariate time series forecasting models for geo-specific mortgage rates, delivering actionable insights that enhanced financial analysis and investment strategies for investors
- Engineered a recommendation system using Collaborative Filtering and a CNN facial classifier, powering AR try-on experiences to enhance e-commerce personalization and customer satisfaction
- Designed and deployed scalable microservices for a unified social media management platform, integrating Facebook/Instagram/X/LinkedIn APIs and managing via Kubernetes for robust performance and reliability
- Developed high-throughput post schedulers processing complex media files and optimized data analysis across 50+ metrics, delivering key social media insights for strategy

Software Engineer, Self Employed Oct 2020 – Aug 2021

- Built and scaled automated ETL pipelines using Apache Airflow for SEC Form 4 data, processing 5 million historical records and over 3,000 daily filings to power robust insider trading analytics and compliance monitoring
- Developed and maintained web scrapers for over 8,000 companies, enriching Form 4 datasets and optimizing data processing workflows to deliver actionable trading insights and enhance investment decision making
- Designed and implemented REST APIs (FastAPI) and microservices, including real-time video streaming solutions using AWS Chime, FFmpeg, and WebRTC, to support scalable and interactive application features

Software Engineer, Arimac Lanka (pvt) Limited – Colombo, Sri Lanka Jul 2019 – Sept 2020

- Engineered multi-platform integrations for a social listening tool, expanding data extraction across various channels to enable comprehensive analysis of trends, conversations, and brand sentiment for clients
- Integrated SERP analysis to enhance a social listening tool, enabling extraction of web search data to provide richer context and comprehensive brand insights alongside social media analysis

Software Engineer Intern, Fortunaglobal (pvt) Limited – Colombo, Sri Lanka Jul 2017 – Jul 2018

- Developed fintech chatbots using fuzzy logic and sequence ML models, enabling automated handling of customer inquiries and providing secure access to essential online banking functionalities
- Built a dashboard visualizing chatbot interactions and managed secure on-premise deployment, ensuring compliance with strict banking security standards for the conversational AI system

Education

University of Westminster – BEng in Software Engineering (First Class Honours)

Sept 2015 - Aug 2019