

GANESAN S

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5+ years of experience building **distributed data pipelines** and **DevOps-driven cloud architecture** for high-volume data systems. Expert in designing **Kubernetes-native workflows**, **infrastructure-as-code automation**, and **secure, scalable APIs** to unify complex data ecosystems. Passionate about bridging data engineering with machine learning pipelines and operational excellence.

EDUCATION

University of Florida – Master’s in Computer Science	GPA: 3.61/4.00	Aug 2021 – May 2023
SRM University, India – Bachelor’s in Computer Science	CGPA: 8.844/10	July 2014 – May 2018

TECHNICAL SKILLS

Programming Languages:	Python, C#, TypeScript, JavaScript, SQL
Data Engineering:	Apache Airflow, Azure Data Factory, Kubernetes, Apache Kafka, Spark, dbt, Postgres, Bigtable
Cloud/DevOps:	AWS (ECS, Lambda, S3, Glue), Azure (Data Factory, SQL DB, Blob Storage), Docker
APIs:	RESTful API Design (.NET Core, FastAPI), API Security (OAuth, JWT), GIS/Video Data Integration
ML Collaboration:	Training Data Curation, ML Inference Pipelines, TensorFlow, PyTorch

WORK EXPERIENCE

Maxil Technology Solutions | Full-Time | *Software Engineer* | Oak Brook, IL May 2024 – Present

Product Description: Job Board for contract IT roles

- Architected **distributed data pipelines** on **AWS ECS/Kubernetes** to process 200+ TB/month of job application data, ensuring **idempotent operations** and consistency using Python (PySpark) and **Apache Airflow** for workflow orchestration.
- Automated **ETL workflows** for a Neo4j-based referral system, reducing data processing time by **30%** through parallelized AWS Lambda jobs and S3-to-ECS data transfers
- Built **RESTful APIs** with **.NET Core** to integrate video-based applicant screening tools, improving data accessibility for internal teams and cutting latency by **25%** through Redis caching.

BestRx Pharmacy Software | Full-Time | *Full Stack Engineer* | Oak Brook, IL Aug 2023 – Apr 2024

Product Description: Pharmacy Management Suite (Point Of Sale, Inventory, Medical Billing)

- Designed a **HIPAA-compliant data lake** on **Azure Blob Storage**, orchestrating ETL workflows with **Azure Data Factory** to unify pharmacy POS, inventory, and billing data from 50+ APIs, ensuring 99.9% uptime.
- Optimized **Postgres** query performance by **40%** via indexing, partitioning, and concurrency controls for a prescription tracking system processing 5M+ monthly transactions.
- Leveraged **SQL Server** and structured logging (.NET Serilog) to standardize troubleshooting, reducing resolution time by **40%**.

Autoreview.ai | Intern | *Software Engineer Intern, AI/ML* | Gainesville, FL May 2022 – Dec 2022

Product Description: Document Manager for Construction Companies

- Engineered **GIS data pipelines** using **Google Cloud Storage** and **PostGIS** to process 100k+ geospatial records/month, enabling real-time flood-risk analysis for construction sites.
- Automated license key generation workflows with **Python** and **AES encryption**, reducing subscription onboarding time by **50%**.
- Built a **Python Celery task queue** integrated with **Redis pub/sub** to handle asynchronous geocoding requests, processing 10k+ GIS transactions daily with 99.9% uptime.

Infosys | Full-Time | *Software Engineer* | Chennai, India Jul 2018 – Jul 2021

Product Description: Information System for Subsidized Housing Projects

- Migrated 15+ **Oracle/SQL Server** databases to **Azure SQL**, designing star-schema models to accelerate reporting for subsidized housing projects by **35%**.
- Implemented **Apache Kafka** for real-time contract data synchronization across distributed teams, ensuring strict consistency models.
- Engineered **20+ parameterized stored procedures** and **SQL Server Integration Services (SSIS)** packages to automate data ingestion from 3rd-party APIs, reducing manual ETL efforts by **30 hours/month**.