

GANESAN SANTHANAM

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5 years of experience building scalable, cloud-native applications with creative and sophisticated approaches such as Event-Driven Design, Microservice Architecture, and AI/ML.

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:	Java(Spring Boot, , Hibernate), Python, JavaScript, TypeScript
Backend:	REST/GraphQL APIs, Microservices, Kafka, Event-Driven Design, Distributed Query Engines
Cloud & DevOps:	AWS (ECS, EC2, S3, Lambda, RDS, CloudWatch), Azure (SQL, VMs), Serverless Architecture
Frontend Development:	HTML5, CSS3, ReactJS
Databases:	PostgreSQL, DynamoDB, Neo4j, BigTable (via Azure SQL), Oracle, Elasticsearch, Redis

WORK EXPERIENCE

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

Product Description: Job Board for contract IT roles

- **Scalable Event-Driven Backend:** Built a **Kafka-powered microservice** (Python/Pandas) processing **10k+ daily clickstream events**, reducing job view latency by 15% through parallel computing and caching.
- Designed and implemented a **novel candidate referral system** that incentivizes high quality referrals through a “vouched referral” category tracked and modeled on a **Neo4j GraphDB network** hosted on **AWS ECS**.
- **ML-Driven APIs:** Engineered a **Java/Spring Boot** job recommendation engine using spaCy NLP and PostgreSQL/pgvector, boosting application conversions by 22%.
- Maximized page responsiveness and reduced Time To First Byte (TTFB) by implementing query result caching, stored procedures, and optimized indexing on **AWS** (DynamoDB, RDS), using **Node.js** with **TypeScript**.

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)

- **High-Volume Backend Systems:** Developed **Java Spring Boot** APIs for HIPAA-compliant prescription tracking, ensuring 99.9% uptime for 1M+ monthly transactions.
- **Query Optimization:** Reduced insurance claims processing time by 40% using **Java thread pooling** and SQL Server indexing.
- **Real-Time Data Pipelines:** Integrated **Kafka** with Medi-Span® APIs to deliver drug safety insights, cutting patient risk alerts from 5s to 500ms.
- Standardized product troubleshooting process by implementing structured logging with correlation IDs (.NET Serilog).

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

Product Description: Document Manager for Construction Companies

- Delivered real-time GIS data to identify flood-prone sites by engineering **spatial indexing and geocoding workflows** using **PostGIS & Google Maps APIs** in NodeJS, ReactJS.
- Produced on-demand regulatory insight reports with 92% accuracy by engineering, a **microservice** with a **GloVe NLP model** in TensorFlow for sentence embeddings and a Redis VectorDB for embeddings dictionary.
- Streamlined product subscription handling through a **RESTful microservice** that securely generates license keys using **AES encryption** and managed their lifecycle transitions using **Django and MongoDB**.

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

Product Description: Information System for Subsidized Housing Projects

- **Scalable Backend Modules:** Designed **C#/.NET** services for property/contract management, reducing system downtime by 30% through reliability enhancements.
- Led migration of legacy Oracle/MS SQL systems to **Azure SQL**, enabling horizontal scaling for 50k+ concurrent users.
- Spearheaded **22 Power BI dashboards** for real-time analytics, enforcing data retention policies and reducing compliance risks by 45%.