

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
SRM University, India – Bachelor’s in Computer Science

GPA: 3.61/4.00
CGPA: 8.844/10

Aug 2021 – May 2023
July 2014 – May 2018

TECHNICAL SKILLS

Programming Languages: C#, Python, JavaScript (ES6+), TypeScript, SQL
Backend Development: .NET Core, Node.js, Django, RESTful APIs, Entity Framework, Celery
Cloud & DevOps: AWS (S3, Lambda, RDS, ECS, EC2, SQS, CloudWatch), Azure (VMs, SQL, Blob Storage), Docker
Frontend Development: HTML5, CSS3, ReactJS, Redux, .NET WPF Forms
Databases & Data Tools: SQL Server, PostgreSQL, Oracle, MongoDB, Redis, DynamoDB, Apache Kafka, Neo4j

WORK EXPERIENCE

Maxil Technology Solutions | Full-Time | *Software Engineer* | Oak Brook, IL

May 2024 – Present

Product Description: Job Board for contract IT roles

- **Led feature development** of a **machine learning-driven job recommendation engine** using **spaCy NLP** and **AWS EC2**, optimizing skill/job matching via **PostgreSQL + pgvector** to drive a 22% increase in application conversions.
- 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**.
- Engineered a **high-availability clickstream analysis microservice** (Node.js, TypeScript, MongoDB) to process **large-scale user interaction data**, improving job posting views by 15%.
- **Optimized AWS RDS/DynamoDB performance** through query caching, indexing, and stored procedures, reducing Time To First Byte (TTFB) by 30% in a **low-latency environment**.

RedSail Technologies | Full-Time | *Full Stack Engineer* | Oak Brook, IL

Aug 2023 – Apr 2024

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

- Improved prescription compliance by building a **prescription transfer request tracking** system via a **RESTful Backend as a Service (BaaS) API** using **ASP.NET Core**, XML ORM and ReactJS.
- Developed an **automated insurance claims system** using **C# and object pooling**, enhancing HIPAA compliance and accelerating reimbursements by 25%.
- Built a **.NET service** integrating SQL databases with Medi-Span® drug safety data, delivering real-time insights to patients at **high scale** (1M+ monthly transactions).
- 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

- Designed a **machine learning microservice** using **TensorFlow** and **Redis VectorDB** to generate regulatory reports with 92% accuracy, leveraging **NLP sentence embeddings** for real-time insights.
- Engineered **geospatial data workflows** with PostGIS and Google Maps APIs, processing **petabyte-scale GIS datasets** for flood-risk analysis.
- 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

- Built functionality, provided long-term development support, and enhanced system reliability for property and contract management modules using **WPF .NET Framework 4.7.2** and **C# 6.0**.
- Created **Power BI reports** with SQL Server Integration, enabling data-driven decision-making for property management.
- Migrated **large-scale on-premises databases** (Oracle, SQL Server) to **Azure SQL**, improving system reliability and scalability for subsidized housing projects.