

# 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:	C#, Java, Python, JavaScript (ES6+), SQL
Backend Development:	.NET Core, RESTful APIs, Microservices, Apache Kafka, Celery, Entity Framework
Cloud & DevOps:	AWS (S3, Lambda, RDS, ECS, EC2, SQS, CloudWatch), Azure (VMs, SQL, Blob Storage), Docker
Frontend Development:	ReactJS, HTML5, CSS3, TypeScript
Databases & Data Tools:	PostgreSQL, MongoDB, SQL Server, Azure SQL, DynamoDB, PostGIS, OAuth 2.0,

## WORK EXPERIENCE

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

Product Description: Job Board for contract IT roles

- Designed a **distributed job recommendation engine** using **C#, AWS EC2, and spaCy NLP**, improving job application conversions by **22%** through real-time skill/job matching.
- Architected a **graph-based candidate referral system** using Neo4j on AWS ECS, improving referral quality by 25% for **enterprise-scale hiring platforms**.
- Engineered a **high-performance clickstream analysis microservice** (Python, Celery, MongoDB) to track user interactions, boosting job posting views by **15%** and enabling personalized customer targeting.
- Collaborated with frontend teams to integrate APIs with a **ReactJS application**, ensuring seamless data flow for dynamic user experiences.

**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)

- Developed a **HIPAA-compliant .NET Core API** for automated insurance claims, leveraging **C# and OAuth 2.0** to accelerate reimbursements by **25%**.
- Built a **real-time drug safety integration** (SQL Server, .NET WPF) to deliver personalized insights to 1M+ monthly users at the point of sale.
- Designed **RESTful APIs** for inventory management with 99.9% uptime, integrating SQL Server & Medi-Span® API.

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

Product Description: Document Manager for Construction Companies

- Designed a **regulatory compliance microservice** using **TensorFlow** and **Redis VectorDB** to generate regulatory reports with 92% accuracy, leveraging **NLP sentence embeddings** for real-time insights.
- Partnered with analytics engineers to design geospatial workflows (**PostGIS, Google Maps APIs**) for real-time flood-risk visualization.
- Created a **secure license management microservice** (Django, AES encryption) to streamline product subscriptions, ensuring compliance and scalability.

**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**.
- Delivered **22 Power BI dashboards** with SQL Server Integration, enabling data-driven decision-making for enterprise clients.
- Migrated **large-scale on-premises databases** (Oracle, SQL Server) to **Azure SQL**, optimizing schemas and pipelines for **high availability**.