

# 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#, Python, JavaScript (ES6+), TypeScript

**Backend Development:** ASP.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)

**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

- **Deployed OpenAI GPT-4 for resume parsing** using Python LangChain, reducing match errors by 32%
- **Built MLOps pipeline** with MLflow and Kubernetes for NLP job recommender (spaCy → pgvector), automating model retraining
- **Engineered real-time skill-gap analyzer** using OpenAI embeddings + Redis VectorDB, boosting conversions 18%
- **Optimized PySpark workflows** on AWS EMR, cutting job processing time by 40% for 200TB+ clickstream data.

**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)

- **Fine-tuned BERT model** for HIPAA-compliant prescription data extraction (Python/PyTorch), improving accuracy to 98%
- **Automated insurance claim processing** with OpenAI API and C# microservices, accelerating reimbursements 30%
- **Designed MLOps monitoring system** with Azure ML Studio, tracking data drift in drug safety databases.
- **Implemented vectorized SQL queries** (PostgreSQL/Python) for real-time Medi-Span® analytics.

**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**
- **Created flood-risk predictor** using OpenAI CLIP + satellite imagery, achieving 94% accuracy with TensorFlow.

**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 22 **Power BI** report templates with **SQL Server Integration**, and resolved issues in 96 SSRS reports for reliable data insights.
- Migrated complex on-premises databases in Oracle and MS SQL Server 2005 to Azure-hosted SQL Server 2017.