

# Ganesan Santhanam

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## MY IMPACT & EXPERTISE

- **Backend Engineering & Data Expertise:** Specialized in building scalable microservices, RESTful APIs, and optimizing relational/NoSQL databases with a strong focus on performance and efficiency.
- **Cloud & Modernization Leadership:** Successfully modernized legacy systems with cloud migrations and implemented cutting-edge architectures using .NET, Django, and NodeJS.

## TECHNICAL SKILLS

**Programming Languages:** C, Python, JavaScript (ES6+), SQL, Java (SpringBoot)

**Frameworks & Libraries:** ASP.NET Core, Node.js, Django, React, Spring Boot, Entity Framework

**Databases:** SQL Server, MongoDB, Redis, PostGIS, Azure SQL

**Cloud & Tools:** Azure (VMs, Blob Storage), AWS (Lambda, S3, ECS, Kinesis, DynamoDB, CloudWatch, RDS), GitHub Actions

**Concepts:** Microservices, CI/CD, Distributed Systems, HIPAA Compliance, A/B Testing

## PROFESSIONAL EXPERIENCE

### Maxil Technology Solutions

May, 2024 — Present

*Software Engineer*

*Oak Brook, IL*

Product Description: Job Board for contract IT roles

- Engineered a **real-time clickstream analysis microservice using AWS Lambda and Apache Kafka**, processing 15K+ events/sec to optimize ad relevance and increase job posting engagement by 15%.
- 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

Aug, 2023 — Apr, 2024

*Software Engineer*

*Oak Brook, IL*

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

- **HIPAA-Compliant Inventory API:** Built a RESTful Backend-as-a-Service (BaaS) using ASP.NET Core and Azure SQL, syncing 100K+ drug SKUs across 200+ pharmacies with less than 100ms latency.
- **Workflow Automation:** Reduced manual errors by 40% and accelerated reimbursements by 18% via C# object pooling for CMS form generation.
- **Improved system reliability by 40%** through **structured logging with correlation IDs** (.NET/Serilog).

### Autoreview.ai

May, 2022 – Dec, 2022

*Software Engineer Intern, AI/ML*

*Gainesville, FL*

Product Description: Document Manager for Construction Companies

- Reduced flood-risk analysis time by 35% via a GIS service using PostGIS and AWS Kinesis (3K+ requests/sec).
- **Built a regulatory NLP microservice with TensorFlow and Redis**, achieving **92% accuracy** in compliance reports.
- 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

Jul, 2019 – Jul, 2021

*Software Engineer*

*Chennai, India*

Product Description: Information System for Subsidized Housing

- 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 and debugged 96 SSRS reports, enabling data-driven decisions for \$500K+ assets.
- **Migrated monolithic databases** (Oracle/MS SQL) to **Azure SQL**, improving query performance by **35%** for **10,000+ institutional users**.

## EDUCATION

### University of Florida

Aug, 2021 – May, 2023

*Master's of Science in Computer Science*

*Gainesville, Florida*