

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**.
- **Large-Scale Systems & Data Analysis:** Proficient in performance optimization, debugging, and data visualization tools, with experience in distributed systems and cloud infrastructure.
- **AI/ML & NLP:** Developed AI-driven solutions, including NLP models and GIS services, to enhance user experiences and automate workflows.

TECHNICAL SKILLS

Languages: C#, Python, JavaScript (ES6+), TypeScript, SQL, Java (SpringBoot)

Frameworks: ASP.NET Core, Node.js, Django, React, Spring Boot, Entity Framework, TensorFlow

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

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

Concepts: Microservices, CI/CD, Distributed Systems, HIPAA Compliance, A/B Testing, Large-Scale System Design, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Maxil Technology Solutions

Software Engineer

May, 2024 — Present

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**.
- **Improved system performance** by leveraging **distributed systems** and **data structures** to handle large-scale data processing efficiently.

BestRx Pharmacy Software

Software Engineer

Aug, 2023 — Apr, 2024

Oak Brook, IL

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

- Built a **HIPAA-compliant Inventory API** using **ASP.NET Core** and **Azure SQL**, syncing **100K+ drug SKUs** across **200+ pharmacies** with less than **100ms latency**.
- 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 using **.NET/Serilog**.

Autoreview.ai

Software Engineer Intern, AI/ML

May, 2022 – Dec, 2022

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**, handling **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**.
- **Leveraged AI/ML** to deliver **real-time insights** and automate compliance workflows.

Infosys

Software Engineer

Jul, 2019 – Jul, 2021

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

Master's of Science in Computer Science

Aug, 2021 – May, 2023

Gainesville, Florida