

Ganesan S

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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.
- **Distributed Systems & Observability:** Hands-on experience with Kubernetes, **OpenTelemetry**, **gRPC**, and **Kafka**, ensuring system reliability and scalability.

PROFESSIONAL EXPERIENCE

Maxil Technology Solutions

Software Engineer

May, 2024 — Present

Oak Brook, IL

Product Description: Job Board for contract IT roles

- Engineered a **clickstream analysis microservice** on user interactions using **Celery**, **ReactJS**, and **MongoDB** resulting in a 15% increase in job posting views.
- 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**.
- Designed **event-driven processing pipelines** for real-time user insights using **Kafka** and **Redis Streams**.

RedSail Technologies

Full Stack Engineer

Aug, 2023 — Apr, 2024

Oak Brook, IL

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#** object pooling, **accelerating reimbursements** and ensuring **HIPAA compliance**.
- Integrated **structured logging and observability** using **OpenTelemetry**, **Serilog**, and **Splunk** for improved system monitoring.

Autoreview.ai

Software Engineer Intern, AI/ML

May, 2022 – Dec, 2022

Gainesville, FL

Product Description: Document Manager for Construction Companies

- Built a **real-time GIS data pipeline** using **PostGIS & Google Maps APIs** in NodeJS and ReactJS to **identify flood-prone sites**.
- Engineered **regulatory insight reports** using **GloVe NLP (TensorFlow)** and Redis VectorDB, achieving **92% accuracy**.
- Developed a Django-based microservice for **secure license key generation** using AES encryption, ensuring robust **SaaS subscription handling**.

Infosys

Software Engineer

Jul, 2018 – Jul, 2021

Chennai, India

Product Description: Information System for Subsidized Housing

- Built multiple features and enhanced system reliability for property and contract management modules using **WPF .NET Framework 4.7.2** and **C# 6.0**.
- Migrated complex datasets from Oracle and MS SQL Server 2005 to Azure-hosted SQL Server 2017, leveraging cloud infrastructure to enhance database performance and optimize scalability.

TECHNICAL SKILLS

Backend & Databases: C#, Python, JavaScript (ES6+), TypeScript, Go, SQL Server, MongoDB, Redis, Apache Kafka, GraphDB

Frameworks: ASP.NET Core, WPF, ReactJS, Redux, Node.js, Django, REST APIs, Entity Framework, TensorFlow

Cloud and Tools: AWS (S3, Lambda, RDS, DynamoDB, SQS, EKS), Azure (VMs, Blob Storage), Kubernetes, OpenTelemetry, ArgoCD, GitHub Actions, RabbitMQ, Splunk, Tableau

Soft Skills: System Design, Event-Driven Architecture, Design Patterns, Agile, On-Call Support, Leadership, UX Principles, Cross-Functional Collaboration

EDUCATION

University of Florida

Master's of Science in Computer Science

Aug, 2021 – May, 2023

Gainesville, Florida