Ganesan Santhanam

(630) 791-0656 | s.ganesan@myyahoo.com | LinkedIn | Github | United States

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.

Professional Experience

Maxil Technology Solutions — May, 2024 — Present
Software Engineer — *Oak Brook, IL*

Product Description: Job Board for contract IT roles

- **Developed a clickstream analysis microservice** with **Node.js, TypeScript, and AWS DynamoDB**, increasing job views by **15%**.
- **Optimized API performance by 20%** via query caching and indexing on **AWS DynamoDB/RDS**.

BestRx Pharmacy Software — Aug, 2023 — Apr, 2024
Software Engineer — *Oak Brook, IL*

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

- **Engineered a HIPAA-compliant prescription transfer tracking system** using **ASP.NET Core and React**, reducing manual errors by **30%** via encrypted audit logs and RBAC.
- **Built an automated insurance claims API** using **C and object pooling**, accelerating reimbursements by **25%** while handling **10,000+ monthly transactions**.
- **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

- **Delivered real-time GIS flood-risk data** using **PostGIS & Google Maps APIs** (Node.js/React).
- **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, 2018 – 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.
- Built **22 Power BI dashboards** with real-time SQL integration, enabling data-driven decisions for subsidized housing compliance.
- **Migrated monolithic databases** (Oracle/MS SQL) to **Azure SQL**, improving query performance by **35%** for **10,000+ institutional users**.

Technical Skills

Programming Languages: C#, Python, JavaScript (ES6+), TypeScript, Go(golang)
Frameworks & Libraries: .NET Core, ASP.NET, WPF, Angular, ReactJS, Node.js, Django, Entity Framework, Dapper ORM
Databases: SQL Server, MongoDB, Redis, Oracle, IBM DB2
Cloud & Tools: Azure (VMs, Blob Storage), AWS (S3, Lambda, RDS), GitHub Actions, Azure DevOps, Docker, Kubernetes
Others: RESTful APIs, Microservices, Apache Kafka, Serilog, Power BI, SSRS, Agile/Scrum, OOAD, CI/CD, Unit Testing

Education

University of Florida — Aug, 2021 – May, 2023
Master's of Science in Computer Science — *Gainesville, Florida*