S Ganesan

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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.

Education

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

Professional Experience

Maxil Technology Solutions — May, 2024 — Present
Software Engineer — *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**.

RedSail Technologies — Aug, 2023 — Apr, 2024
Full Stack Engineer — *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 object pooling in C#, accelerating reimbursements, **enhancing revenue recovery, and ensuring HIPAA compliance**.
- Delivered in-depth drug safety information to the patient at the point of sale using **.NET WPF Forms** (JavaScript, HTML, and C#) that links prescriptions with Medi-Span data maintained in a **SQL database**.
- Standardized product troubleshooting process by implementing **structured logging** with correlation IDs using **.NET** and **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 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**.

Infosys — Jul, 2018 – Jul, 2021
Software Engineer — *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**.
- Created 22 Power BI report templates with SQL Server Integration, and resolved issues in 96 SSRS reports for reliable data insights.
- 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, 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), Azure (VMs, Blob Storage), GitHub Actions, Tableau, Splunk, RabbitMQ
Soft Skills: Product Feedback Integration, Design Patterns, Agile, Customer Centric, On-Call Support, Extreme Ownership, Experimentation, UX Principles, Database Design