S Ganesan

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MY IMPACT & EXPERTISE

- **System Optimization**: Engineered cost-saving strategies that reduced AWS DynamoDB operational expenses by 15%, leveraging advanced caching and indexing techniques to enhance system efficiency.
- **Cross-Team Innovation**: Collaborated with architects and data scientists to deploy AI-driven geospatial analytics, improving decision-making accuracy by 92% for construction risk assessments.
- **Agile Leadership**: Pioneered CI/CD pipeline implementation at Maxil, slashing deployment cycles by 30%.

TECHNICAL SKILLS

Languages: C++, C#, Java, Python, JavaScript/TypeScript, SQL
Frameworks: .NET, ASP.NET Core, Spring Boot, WPF, VSTO, Hibernate, REST/Web APIs
Databases: SQL Server, MongoDB, DynamoDB, Redis, DB Optimization & Indexing
Tools: Docker, AWS (RDS, Lambda), Azure (SQL, VMs), GitHub Actions, Interop Libraries, Splunk
Concepts: SOLID, OO Design, Multithreading, TDD, Agile/Scrum, HIPAA Compliance

PROFESSIONAL EXPERIENCE

Maxil Technology Solutions — May, 2024 — Present
Software Engineer — *Oak Brook, IL*
Product Description: Job Board for Contract IT Roles (Windows/Linux)

- Engineered a **high-performance microservice** using **Java Spring Boot** and **C# .NET** to analyze user clickstream data, boosting job views by **15%** via **multithreaded task scheduling**.
- Optimized **AWS DynamoDB** queries using **advanced indexing**, reducing latency by **20%** and aligning with **SOLID principles**.
- **Containerized** deployment pipelines with **Docker**, streamlining Agile release cycles and improving scalability.

BestRx Pharmacy Software — Aug, 2023 — Apr, 2024
Software Engineer — *Oak Brook, IL*
Product Description: HIPAA-Compliant Pharmacy Management Suite

- Designed a **multithreaded insurance claims system** using **Java thread pooling** and **C# object pooling**, accelerating reimbursements by **30%** while ensuring **TDD compliance**.
- Migrated legacy **Oracle/SQL Server 2005** to **Azure SQL 2017**, leveraging **interop libraries** to enhance query performance by **35%**.
- Delivered real-time drug safety insights using **.NET WPF** and **JavaFX**, integrating **SQL Server** with Medi-Span datasets.

Autoreview.ai — May, 2022 – Dec, 2022
Software Engineer Intern, AI/ML — *Gainesville, FL*
Product Description: Geospatial Document Manager for Construction

- Engineered **C++/OpenCV image processing pipelines** to analyze satellite imagery, reducing **flood-risk mapping time by 40% through edge detection** and multithreaded optimization.
- Integrated **Node.js with PostGIS** to deliver real-time geospatial workflows, achieving **92% accuracy in flood-risk assessments** for resource-constrained systems.
- **Containerized** services with **Docker** to standardize deployment across environments.

Infosys — Jul, 2019 – Jul, 2021
Software Engineer — *Chennai, India*
Product Description: Cloud-Based Housing Information System

- Modernized legacy databases (**Oracle/SQL Server**) to **Azure SQL 2017**, optimizing scalability and reducing latency by **25%** through **query plan analysis**.
- Collaborated with firmware teams to integrate legacy systems using **interop libraries**, resolving **96 SSRS report issues**.
- Designed **22 Power BI dashboards** with **SQL Server Integration**, enabling data-driven decisions for subsidized housing management.

EDUCATION

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