Ganesan Santhanam

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Backend engineer specializing in scalable microservices, database optimization, and cloud modernization. Skilled in .NET, Django, and Node.js, with a track record of boosting performance and implementing AI/ML-driven solutions.

TECHNICAL SKILLS

Backend & Databases: C++, 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 (Lambda, RDS), Azure (VMs, SQL), Jenkins, Jira, GitHub Actions, Tableau, Splunk, RabbitMQ

Networking & Systems: Linux, Docker, Git, CI/CD (GitHub Actions), performance tuning, Splunk, Exposure to L2/L3 concepts through academic coursework and system-level optimizations in professional projects

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.
- **Optimized AWS infrastructure (DynamoDB, RDS)** with query caching and indexing, reducing Time To First Byte (TTFB) by 30% (500ms → 350ms), demonstrating **performance tuning** in distributed systems.

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**.
- Implemented **structured logging with correlation IDs** (.NET, Serilog) to streamline debugging, improving system reliability for 10,000+ pharmacies.

Autoreview.ai — May, 2022 – Dec, 2022
Software Engineer Intern, AI/ML — *Gainesville, FL*

Product Description: Document Manager for Construction Companies

- Engineered real-time **GIS workflows (PostGIS, Google Maps APIs)** for flood-risk analysis, optimizing spatial data processing for large-scale infrastructure.
- Developed a **Redis-backed NLP microservice (TensorFlow, GloVe)** for regulatory reports, achieving 92% accuracy and reducing manual review time by 40 hours/month.
- 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 **legacy datasets (Oracle, MS SQL) to Azure SQL Server**, improving query performance by 40% and **scalability by 50% in Linux-hosted environments.**

EDUCATION

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