

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

Cloud & IaC: AWS (EC2, S3, RDS, VPC), Azure (VMs, SQL), Terraform, Docker, Kubernetes (basic)

CI/CD: GitHub Actions, Jenkins, Argo (familiar), GitOps

Languages: Python, TypeScript, C#, SQL, JavaScript (ES6+)

Observability & Networking: Splunk, Prometheus (self-trained), Grafana, Datadog (conceptual), VPC configuration, load balancing, security groups

Soft Skills: Cross-functional collaboration, process documentation, Agile/Scrum

PROFESSIONAL EXPERIENCE

Maxil Technology Solutions

May, 2024 — Present

Software Engineer

Oak Brook, IL

Product Description: Job Board for contract IT roles

- **Increased job posting visibility by 15% (measured via Google Analytics)** by engineering a clickstream analysis microservice using **Celery, ReactJS, and MongoDB**, enabling real-time user behavior tracking.
- **Reduced Time To First Byte (TTFB) by 30%** (from 500ms to 350ms) by optimizing AWS DynamoDB/RDS performance through query caching, stored procedures, and indexing strategies.
- **Improved system reliability by 25% (measured via Splunk dashboards)** by integrating structured logging and error-tracking workflows for microservices.

BestRx Pharmacy Software

Aug, 2023 — Apr, 2024

Full Stack Engineer

Oak Brook, IL

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

- **Accelerated insurance claim reimbursements by 25%** by designing a HIPAA-compliant automated claims system with C# object pooling and ASP.NET Core, reducing manual processing errors by 40%.
- Developed an automated insurance claims system using object pooling in C#, accelerating reimbursements, **enhancing revenue recovery, and ensuring HIPAA compliance.**
- **Cut deployment failures by 35% by implementing GitHub Actions CI/CD pipelines** for automated testing, ensuring zero-downtime releases for 10,000+ pharmacies.
- **Reduced troubleshooting time by 50% (measured via team feedback)** by standardizing logging practices with **Serilog and correlation IDs**, later documented in team wikis.

Autoreview.ai

May, 2022 – Dec, 2022

Software Engineer Intern, AI/ML

Gainesville, FL

Product Description: Document Manager for Construction Companies

- **Reduced GIS query latency by 25%** by engineering spatial indexing workflows with **PostGIS and Google Maps APIs**, enabling real-time flood-risk analysis for 500+ sites.
- Improved license key generation efficiency by 50% by building a **Dockerized RESTful microservice (Django, MongoDB)** with automated lifecycle management via GitHub Actions.
- **Achieved 92% accuracy in regulatory reports** by deploying a Redis-backed NLP pipeline (TensorFlow/GloVe), saving 40+ hours/month in manual reviews.

Infosys

Jul, 2018 – Jul, 2021

Software Engineer

Chennai, India

Product Description: Information System for Subsidized Housing

- **Enhanced database scalability by 50%** by migrating legacy Oracle/MS SQL Server systems to Azure SQL, leveraging auto-scaling and query optimization for 500+ properties.
- **Reduced ad-hoc reporting requests by 60%** by building 22 Power BI dashboards with SQL Server Integration, improving cross-functional team productivity.
- **Resolved 96 SSRS report errors by refactoring data pipelines**, ensuring 99.8% uptime for subsidized housing management systems.

EDUCATION

University of Florida

Aug, 2021 – May, 2023

Master's of Science in Computer Science

Gainesville, Florida