

Ganesan Santhanam

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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 Java, Django, and NodeJS.

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 **Apache Kafka, 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 Java

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 Java Spring Boot**, Hibernate ORM, and ReactJS.
- Developed an automated insurance claims system using thread pooling in Java, accelerating reimbursements, **enhancing revenue recovery, and ensuring HIPAA compliance.**
- Delivered in-depth drug safety information to the patient at the point of sale using **JavaFX (Java, HTML, and CSS)** that links prescriptions with Medi-Span data maintained in a **SQL database.**
- Standardized product troubleshooting process by implementing **structured logging with correlation IDs using SLF4J and Logback.**

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 **JavaFX and Java 8.**
- 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: Java 8+, Python, JavaScript (ES6+), SQL Server, MongoDB, Redis, Apache Kafka, GraphDB
Frameworks: Spring Boot, Hibernate, ReactJS, TypeScript, Redux, Node.js, Django, REST APIs, 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

EDUCATION

University of Florida

Aug, 2021 – May, 2023

Master's of Science in Computer Science

Gainesville, Florida