GANESAN SANTHANAM

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5 years of experience building scalable, cloud-native applications with creative and sophisticated approaches such as Event-Driven Design, Microservice Architecture, and AI/ML.

EDUCATION

University of Florida – Master's in Computer Science   GPA: 3.61/4.00   *Aug 2021 – May 2023*
SRM University, India – Bachelor's in Computer Science   CGPA: 8.844/10   *July 2014 – May 2018*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript (ES6+), TypeScript, C/C++
Backend Development: Spring Boot, RESTful APIs, Microservices, Hibernate/JPA, GraphQL
Cloud & DevOps: AWS (S3, Lambda, RDS, ECS, EC2, SQS, CloudWatch), Azure (VMs, SQL, Blob Storage), Docker
Frontend Development: HTML5, CSS3, ReactJS
Databases & Data Tools: PostgreSQL, Oracle, Neo4j, Apache Kafka, Pandas/NumPy, Parallel Computing

WORK EXPERIENCE

Maxil Technology Solutions | Full-Time | *Software Engineer* | Oak Brook, IL   *May 2024 – Present*
Product Description: Job Board for contract IT roles

- **Led feature development** of a **machine learning-driven job recommendation engine** using **spaCy NLP** and **AWS EC2**, optimizing skill/job matching via **PostgreSQL + pgvector** to drive a 22% increase in application conversions.
- Architected a **graph-based candidate referral system** using Neo4j on AWS ECS, improving referral quality by 25% for **enterprise-scale hiring platforms**.
- Engineered a **low-latency clickstream analysis microservice** (Apache Kafka, Python/Pandas) processing 10M+ daily events, boosting job views by 15%.
- **Optimized AWS RDS/DynamoDB** performance by 30% via **parallel computing** and caching strategies for **high-availability systems**.

RedSail Technologies | Full-Time | *Full Stack Engineer* | Oak Brook, IL   *Aug 2023 – Apr 2024*
Product Description: Pharmacy Management Suite (Point Of Sale, Inventory, Medical Billing)

- Led development of a **HIPAA-compliant prescription tracking system** (Java Spring Boot, ReactJS), ensuring audit readiness for **regulated industries**.
- Accelerated insurance claims processing by 40% using **Java thread pooling**, enhancing revenue recovery and compliance.
- Built a **.NET service** integrating SQL databases with Medi-Span® drug safety data, delivering real-time insights to patients at **high scale** (1M+ monthly transactions).
- Designed **RESTful APIs** for inventory management with 99.9% uptime, integrating SQL Server & Medi-Span® API.

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

- Designed a **regulatory compliance microservice** using **TensorFlow** and **Redis VectorDB** to generate regulatory reports with 92% accuracy, leveraging **NLP sentence embeddings** for real-time insights.
- Engineered **geospatial data workflows** with PostGIS and Google Maps APIs, processing **gigaabyte-scale GIS datasets** for flood-risk analysis.
- Automated license key generation with **AES encryption** (Django/MongoDB), reducing manual effort by 70% for **secure enterprise deployments**.

Infosys | Full-Time | *Senior Software Engineer* | Chennai, India   *Jul 2018 – Jul 2021*
Product Description: Information System for Subsidized Housing Projects

- Built functionality, provided long-term development support, and enhanced system reliability for property and contract management modules using **WPF .NET Framework 4.7.2** and **C# 6.0**.
- Spearheaded 22 Power BI dashboards and resolved 96 SSRS reports for real-time analytics, supporting **data-driven enterprise decisions**.
- Migrated **legacy Oracle/MS SQL systems to Azure SQL Server**, enabling scalability for 50K+ concurrent users in **large-scale subsidized housing platforms**.