

# 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:	Vue.js, React.js, Next.js, TypeScript, CSS3 (Grid/Flexbox, Responsive Design), ES6+
Programming Languages:	Java, Python, JavaScript (ES6+), TypeScript, SQL
Backend Development:	Spring Boot, Hibernate/JPA, Node.js, RESTful APIs, Microservices, Apache Kafka
Cloud:	AWS (EC2, S3, Lambda, RDS, ECS, SQS), Azure (SQL Server, Service Bus), Jenkins, CI/CD
Database:	PostgreSQL, MongoDB, Redis, DynamoDB, Oracle, Azure SQL

## WORK EXPERIENCE

**Maxil Technology Solutions** | Full-Time | *Software Engineer* | Oak Brook, IL May 2024 – Present

Product Description: Job Board for contract IT roles

- Led design of **job recommendation engine** using **spaCy NLP** and **PostgreSQL + pgvector**, deployed as an **AWS EC2** microservice, improving job match accuracy by 22%.
- Built **candidate referral system** with **Neo4j GraphDB** on AWS ECS, reducing referral fraud by 18% through graph-based relationship analysis.
- Engineered **clickstream analysis microservice** using **Apache Kafka**, **ReactJS**, and **MongoDB**, boosting job posting engagement by 15%.
- Optimized **DynamoDB/RDS** queries with caching and indexing strategies, reducing Time To First Byte (TTFB) by 30%.

**BestRx Pharmacy Software** | Full-Time | *Full Stack Engineer* | Oak Brook, IL Aug 2023 – Apr 2024

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

- Developed **prescription transfer tracking system** using **Java Spring Boot**, **Hibernate**, and **ReactJS**, ensuring HIPAA compliance and reducing processing errors by 20%.
- Accelerated insurance claims processing by 35% using **Java thread pooling** and optimized SQL Server stored procedures.
- Integrated **drug safety alerts** into POS via **JavaFX** and **Medi-Span® API**, reducing prescription risks by 25%.
- Implemented **SLF4J/Logback** with correlation IDs for streamlined troubleshooting across microservices.

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

Product Description: Document Manager for Construction Companies

- Built **GIS mapping workflows** using **PostGIS** and **Google Maps API**, identifying flood-prone construction sites with 95% accuracy.
- 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.
- Automated license key generation with **AES encryption** in Django, reducing administrative overhead by 10 hours/week.

**Infosys** | Full-Time | *Senior Software Engineer* | Chennai, India Jul 2018 – Jul 2021

Product Description: Information System for Subsidized Housing Projects

- Re-architected legacy monolith into **Java Spring Boot microservices** with **Hibernate/JPA**, reducing API latency by 40% and enabling scalable tenant management for 50K+ users.
- Pioneered A/B testing** for a subsidy calculator feature using **Optimizely**, leading to a **20% increase in user engagement**. Instrumented **distributed tracing** via **Azure Application Insights** for latency diagnostics.
- Migrated **Oracle/MS SQL** to **Azure SQL Server 2017**, designed indexed views/stored procedures, and integrated **Redis caching** to cut query times by 35%.
- Implemented **Azure Service Bus** for async notifications (lease approvals, payment processing) with **Java 8 Lambdas**, improving system throughput by 25%.