

GANESAN SANTHANAM

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5 years of expertise in designing secure, scalable cloud-native systems on AWS and Azure.

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, TypeScript, HTML5, CSS3, ReactJS
Backend Development:	Spring Boot, RESTful APIs, Microservices, Hibernate/JPA, GraphQL
Infrastructure:	Kubernetes, Docker, Terraform, CI/CD, Autoscaling, IaC
Cloud & DevOps:	AWS (EC2, ECS, S3, Lambda, RDS, CloudWatch), Azure (VMs, SQL, Blob Storage)
Security:	IAM, RBAC, OIDC/mTLS, AWS KMS, AES Encryption
Databases & Data Tools:	PostgreSQL, DynamoDB, Redis, MongoDB, Apache Kafka, Neo4j, SLF4J/Logback, AWS CLI

WORK EXPERIENCE

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

Product Description: Job Board for contract IT roles

- **Optimized DynamoDB/RDS performance** with Java-based query caching and indexing, reducing API latency by 30% (TTFB from 2.1s to 1.5s) through **distributed cache invalidation patterns**.
- Engineered a real-time clickstream analytics pipeline with Apache Kafka, **designing idempotent consumers** to ensure data consistency during peak traffic (10K+ events/sec).
- **Architected a fault-tolerant AWS ECS-based referral system** with Neo4j GraphDB, achieving **99.9% uptime** for 50K+ daily users via autoscaling, circuit breakers, and CloudWatch-driven failover strategies
- **Deployed secure AWS Lambda functions** using AWS KMS for secrets encryption, enforcing IAM roles and VPC isolation to protect candidate data, and **implemented mTLS for inter-service authentication**.

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)

- Accelerated insurance claim processing by 35% via Java thread pooling, **implementing bulkhead patterns** to isolate resource-heavy batch jobs.
- Automated Azure SQL backups with PowerShell scripts, **building a fault-tolerant disaster recovery pipeline** with geo-redundant Blob Storage, ensuring zero data loss.
- **Enforced HIPAA compliance** via Java-based audit trails and **OIDC-based RBAC** (Azure AD integration), securing PHI data for 500+ pharmacies.

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

Product Description: Document Manager for Construction Companies

- **Developed GIS-based flood risk assessment workflows** using PostGIS and Google Maps API, **identifying 1,200+ high-risk construction sites**.
- Designed a regulatory compliance microservice with **TensorFlow (GloVe embeddings)** and **Redis VectorDB**, achieving 92% accuracy in flagging non-compliant documents.
- **Automated license key lifecycle management** using Django and MongoDB, **reducing manual oversight by 80%** through AES-encrypted key generation and expiry tracking

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

Product Description: Information System for Subsidized Housing Projects

- **Migrated legacy databases to Azure SQL** with **RBAC enforced via Azure AD**, improving scalability for 50+ agencies and reducing query latency by 4x.
- **Implemented Azure Blob Storage** with lifecycle policies and client-side encryption (AES-256), cutting storage costs by 40% while adhering to GDPR-like data residency rules.
- Modernized JavaFX property modules with **circuit breakers and retry logic**, reducing system-wide outages by 60% during peak housing allocation periods.