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: Python, Go, JavaScript, C#
Backend Development: Gin, Celery, RESTful APIs, CI/CD pipelines, Apache Kafka
Cloud & DevOps: AWS (S3, Lambda, RDS, ECS, EC2, SQS, CloudWatch), Azure (VMs, SQL, Blob Storage), Docker
Frontend Development: ReactJS, HTML5, CSS3, TypeScript
Databases & Data Tools: MongoDB, PostgreSQL, DynamoDB, Azure SQL, TensorFlow, spaCy NLP, Redis VectorDB

WORK EXPERIENCE

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

- **Architected an AI-powered job recommendation engine** using **Python, spaCy NLP, and AWS ECS**, scaling to handle **5,000+ concurrent requests** with <200ms latency.
- Automated deployment pipelines using **Docker and AWS ECS** (Kubernetes-aligned orchestration), reducing deployment downtime by **40%**.
- Architected a **graph-based candidate referral system** using Neo4j on AWS ECS, improving referral quality by 25% for **enterprise-scale hiring platforms**.
- Engineered a **real-time clickstream analysis system** (Celery, MongoDB) to process 10M+ daily events, optimizing auto-scaling rules for cost-efficiency.

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)

- **Built a HIPAA-compliant claims processing API** using **Go** and **Gin framework**, achieving **99.99% uptime** and handling 1M+ transactions/month across multi-AZ AWS infrastructure.
- Built a **real-time drug safety integration** (SQL Server, .NET Core) to deliver personalized insights to 1M+ monthly users at the point of sale.
- Reduced API latency by **35%** through **optimized Goroutine concurrency**, Redis caching, and query tuning, ensuring low-latency communication between backend services and frontend applications.

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.
- Partnered with analytics engineers to design geospatial workflows (**PostGIS, Google Maps APIs**) for real-time flood-risk visualization.
- Created a **secure license management microservice** (Django, AES encryption) to streamline product subscriptions, ensuring compliance and scalability.

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**.
- Delivered **22 Power BI dashboards** with SQL Server Integration, enabling data-driven decision-making for enterprise clients.
- Led migration of **large-scale databases** (Oracle → Azure SQL) with zero downtime, implementing fault-tolerant replication and automated failover.