

# GANESAN S

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## PROFESSIONAL SUMMARY

Full-Stack Software Engineer with expertise in **React**, **Python**, and **Golang**, specializing in scalable architectures, cloud-native systems, and diagnostic tools. Proven track record in optimizing performance, implementing CI/CD pipelines, and building event-driven solutions for automotive and cybersecurity applications.

## EDUCATION

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

## TECHNICAL SKILLS

<b>Programming Languages:</b>	Python, Golang, JavaScript (ES6+), TypeScript, C#, SQL
<b>Frameworks:</b>	React, Material UI, Node.js, ASP.NET Core, RESTful APIs
<b>Cloud &amp; DevOps:</b>	AWS (EC2, Lambda, S3, RDS), Kubernetes, Docker, GitHub Actions, CI/CD
<b>Concepts &amp; Tools:</b>	Apache Kafka, RabbitMQ, Linux/Unix, PostGIS, Splunk, Event-Driven Architecture, Scalable Systems, Distributed Tracing, Data Visualization
<b>Databases:</b>	PostgreSQL, MongoDB, DynamoDB, Redis

## WORK EXPERIENCE

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

Product Description: Job Board for contract IT roles

- Built a **job recommendation engine** using **Python** and spaCy NLP on **AWS EC2**, leveraging PostgreSQL + pgvector for skill/job matching to drive conversions.
- Reduced Time-to-First-Byte (TTFB) by 30% by optimizing indexing, caching, and stored procedures on **AWS DynamoDB/RDS** with Node.js and TypeScript.
- Containerized microservices using **Docker** and orchestrated deployments via **Kubernetes**, improving scalability for 10k+ daily users.
- Engineered a **React**-based clickstream analysis microservice with MongoDB, increasing job posting views by 15%.

**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)

- Diagnostic Tooling:** Designed a React-based prescription tracking system with **ASP.NET Core APIs**, improving compliance by 18%.
- HIPAA-Compliant Workflows:** Automated insurance claims processing using **C#** and object pooling, accelerating reimbursements by 25%.
- Real-Time Monitoring:** Built dashboards with React and TypeScript for faster issue detection, reducing downtime by 40%.
- Standardized product troubleshooting process by implementing structured logging with correlation IDs (.NET Serilog).

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

Product Description: Document Manager for Construction Companies

- Geospatial Workflows:** Engineered real-time flood-risk mapping using **Python**, **PostGIS**, and Google Maps APIs.
- 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** | Full-Time | *Senior Software Engineer* | Chennai, India Jul 2018 – Jul 2021

Product Description: Information System for Subsidized Housing Projects

- Scalable Backend Modules:** Designed **C#/.NET** services for property/contract management, reducing system downtime by 30% through reliability enhancements.
- Cloud Migration:** Migrated legacy Oracle/SQL Server databases to **Azure SQL**, improving query latency by 25%.
- Spearheaded **22 Power BI dashboards** for real-time analytics, enforcing data retention policies and reducing compliance risks by 45%.