

# GANESAN S

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## PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of expertise in **cloud systems, high-volume data pipelines, and cross-platform optimization**. Proven success in designing resilient architectures (C/C++/Python) for camera/image processing systems, real-time embedded software, and GCP-based big data solutions. Led 4+ cloud migration projects with 99.9% uptime.

## 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, JavaScript (ES6+), TypeScript, C#   |
| Cloud/ Data:           | GCP (BigQuery, PubSub, DataProc), AWS, Azure, Kafka, Spark, Airflow                         |
| .NET:                  | .NET Core, Spring Boot, TensorFlow, PyTorch, RESTful APIs                                   |
| Frontend Development:  | HTML5, CSS3, ReactJS  |
| Database & Tools:      | PostgreSQL, MongoDB, DynamoDB, SQL Server, Neo4j, Data Structures, Performance Optimization |

## WORK EXPERIENCE

**Maxil Technology Solutions** | Full-Time | *Software Engineer* | Oak Brook, IL May 2024 – April 2025\*

Product Description: Job Board for contract IT roles

- **Engineered real-time clickstream analyzer** with Kafka and PySpark on GCP DataProc, processing 200M+ events/day.
- **Designed a referral tracking system** using **Neo4j GraphDB** to model relationships, enhancing data-driven decision-making for user engagement.
- Improved page responsiveness by **35%** via **query caching** and **DynamoDB indexing**, reducing Time To First Byte (TTFB) for high-traffic workflows.
- **Implemented power-optimized Kubernetes workflows** for job recommendation engine, cutting AWS EC2 costs by 22% through auto-scaling

**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)

- Improved prescription compliance by building a **prescription transfer request tracking** system via a **RESTful Backend as a Service (BaaS) API** using **ASP.NET Core**, XML ORM and ReactJS.
- **Developed HIPAA-compliant embedded data processor** for prescription tracking (C#/.NET Core), handling 5M+ transactions/month at <50ms latency
- Delivered in-depth **drug safety information** to the patient at the point of sale by engineering a **.NET service** that links prescriptions with Medi-Span® data in a SQL database using **.NET WPF Forms (JavaScript, HTML, and C#)**.

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

Product Description: Document Manager for Construction Companies

- Developed **real-time GIS workflows** using **PostGIS and Google Maps APIs** to identify flood-prone construction sites, enabling dynamic risk analysis.
- 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

- 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**.
- Designed a **debugging pipeline** using SQL Server Profiler and Power BI to trace data anomalies in housing subsidy calculations, resolving 100+ critical bugs and enhancing system accuracy.
- **Collaborated with cross-functional teams** to migrate legacy Oracle/MS SQL databases to Azure SQL, implementing **performance tracing scripts** (T-SQL/PowerShell) to monitor query latency and resolve bottlenecks, improving runtime by 40%.