

GANESAN S

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5+ years of experience building **high-performance microservices and geospatial systems** and **scalable 3D data pipelines**. Expert in **C#, C++**, and **API design** for Unreal/Unity plugins, with a passion for democratizing 3D geospatial data through modular architectures and open-source collaboration.

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

Frontend & Languages: Python, Go (Golang), TypeScript, JavaScript, SQL, React, Redux, HTML5/CSS3

Backend: RESTful APIs, Microservices, OpenAPI/Swagger, Node.js, ASP.NET Core

Cloud: AWS (Lambda, ECS, DynamoDB, S3), Azure Services

Data Systems: PostgreSQL, Redis, MongoDB, Kafka, Neo4j

WORK EXPERIENCE

Maxil Technology Solutions | Full-Time | *Software Engineer* | Oak Brook, IL

May 2024 – Present

Product Description: Job Board for contract IT roles

- **Designed a scalable job recommendation engine** using **Python and AWS EC2**, leveraging **NLP (spaCy)** and **pgvector** for semantic matching, improving job-application conversions by **20%**.
- **Built a referral tracking system** with **Neo4j graph database** (AWS ECS), modeling trust networks akin to **decentralized identity systems**.
- **Optimized API response times by 30%** via **DynamoDB caching** and indexing (Node.js/TypeScript), demonstrating expertise in **high-performance RESTful design**.

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)

- **Engineered a HIPAA-compliant insurance claims API** handling **10,000+ transactions/month** using **Python and C#**, with **object pooling** to reduce latency by **25%** (comparable to high-throughput blockchain transactions).
- **Developed a prescription safety service** integrated with **Medi-Span®**, showcasing **third-party API design** and secure data handling (AES encryption).
- **Improved system reliability by 40%** via structured logging (Serilog), aligning with **audit trails for financial systems**.

Autoreview.ai | Intern | *Software Engineer Intern, AI/ML* | Gainesville, FL

May 2022 – Dec 2022

Product Description: Document Manager for Construction Companies

- Built a regulatory compliance engine using **TensorFlow NLP** and **Redis VectorDB**, achieving **92% accuracy** in real-time reports (analogous to **on-chain data validation**).
- **Implemented AES-encrypted license keys** (Django/MongoDB), demonstrating **secure key lifecycle management** for SaaS platforms.
- Built a **Python Celery task queue** integrated with **Redis pub/sub** to handle asynchronous geocoding requests, processing 10k+ GIS transactions daily with 99.9% uptime.

Infosys | Full-Time | *Software Engineer* | Chennai, India

Jul 2018 – Jul 2021

Product Description: Information System for Subsidized Housing Projects

- **Modernized legacy databases** (Oracle/MS SQL) to **Azure SQL**, improving query performance by **35%** for 10,000+ users (scalability akin to **sharded blockchain databases**).
- Implemented **Apache Kafka** for real-time contract data synchronization across distributed teams, ensuring strict consistency models
- Designed 22 Power BI dashboards with real-time SQL pipelines, highlighting **data-driven decision-making** for compliance.
- Engineered **20+ parameterized stored procedures** and **SQL Server Integration Services (SSIS)** packages to automate data ingestion from 3rd-party APIs, reducing manual ETL efforts by **30 hours/month**.