

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

Programming Languages:	C++, C#, Python, TypeScript, JavaScript, SQL
Geospatial:	PostGIS, GIS Data Integration, Photogrammetry, Point Cloud Processing
APIs:	RESTful APIs (.NET Core, FastAPI), gRPC, OAuth
Performance:	GPU Optimization, SIMD, Multithreading, Apache Kafka, Redis

WORK EXPERIENCE

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

Product Description: Job Board for contract IT roles

- Engineered a **Unity plugin** using **C#** to integrate real-time 3D job applicant avatars into the platform, leveraging **glTF** for model rendering and reducing client-side load times by **40%**.
- Optimized a **geospatial data pipeline** for video-based applicant screening tools using **WebGL**, processing 50k+ 3D data points/day with **99.9% uptime** on AWS ECS.
- Mentored junior developers in **open-source best practices**, contributing 15+ pull requests to internal GitHub repositories and improving CI/CD pipeline efficiency by **25%**.

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)

- Designed a **HIPAA-compliant 3D inventory visualization tool** using **C++** and **OpenGL**, enabling pharmacists to interact with drug stock in a virtual 3D environment, cutting inventory audit time by **30%**.
- Built a **.NET Core API** to unify pharmacy POS data with geospatial mapping libraries, ensuring seamless integration with external EHR systems via **RESTful endpoints**.
- Reduced rendering latency by **35%** by implementing **SIMD optimizations** for high-traffic prescription tracking dashboards.

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

Product Description: Document Manager for Construction Companies

- Developed a **3D flood-risk analysis module** using **PostGIS** and **Three.js**, processing 100k+ geospatial records/month and achieving **92% accuracy** in real-time simulations.
- Created a **Python-based point cloud processor** to automate terrain modeling from LiDAR data, reducing manual processing efforts by **20 hours/week**.
- 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

- Migrated 15+ **Oracle/SQL Server** databases to **Azure SQL**, designing star-schema models to accelerate reporting for subsidized housing projects by **35%**.
- Implemented **Apache Kafka** for real-time contract data synchronization across distributed teams, ensuring strict consistency models.
- 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**.