GANESAN S

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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, JavaScript (ES6+), TypeScript, C#
Testing & Performance: AWS CloudWatch, Apache Kafka, Celery, Redis, TensorFlow, PostGIS
Graphics-Relevant Tools: GIS mapping (PostGIS), spatial indexing, vector databases (pgvector), performance tracing
Frontend Development: HTML5, CSS3, ReactJS
Databases & Data Tools: PostgreSQL, MongoDB, DynamoDB, SQL Server, Power BI, Neo4j

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 a **job recommendation engine** using **spaCy NLP** and PostgreSQL + pgvector to optimize user-job matching via **Euclidean scoring**, improving application conversions by 18%.
- **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.
- **Collaborated with cross-functional teams** to deploy a **clickstream analysis microservice** (ReactJS, MongoDB), boosting 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)

- 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.
- Built a **HIPAA-compliant claims system** using **C# object pooling**, accelerating reimbursements by 22% and ensuring compliance with regulatory standards.
- 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%.