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: C#, Python, JavaScript (ES6+), TypeScript
Backend Development: ASP.NET Core, Node.js, Django, RESTful APIs, Entity Framework, Celery
Cloud & DevOps: AWS (S3, Lambda, RDS, ECS, EC2, SQS, CloudWatch), Azure (VMs, SQL, Blob Storage)
Frontend Development: HTML5, CSS3, ReactJS, Redux, .NET WPF Forms
Databases & Data Tools: SQL Server, PostgreSQL, Oracle, MongoDB, Redis, DynamoDB, Apache 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

- Leading the design and development of a **job recommendation engine** as an **AWS EC2 service** using **spaCy NLP** and PostgreSQL + pgvector for skill/job vector storage with Euclidean scoring to drive job application conversions.
- Designed and implemented a **novel candidate referral system** that incentivizes high quality referrals through a "vouched referral" category tracked and modeled on a **Neo4j GraphDB network** hosted on **AWS ECS**.
- Increased job posting views by 15% by engineering a **clickstream analysis microservice** on user interactions using **Celery, ReactJS, and MongoDB**.
- Maximized page responsiveness and reduced Time To First Byte (TTFB) by implementing query result caching, stored procedures, and optimized indexing on **AWS** (DynamoDB, RDS), using **Node.js** with **TypeScript**.

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.
- Enhanced revenue recovery, accelerated reimbursements, and improved HIPAA compliance by developing an **automated insurance claims system** using **object pooling** in C#.
- 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#)**.
- 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

- Delivered real-time GIS data to identify flood-prone sites by engineering **spatial indexing and geocoding workflows** using **PostGIS & Google Maps APIs** in NodeJS, ReactJS.
- 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**.
- Created 22 **Power BI** report templates with **SQL Server Integration**, and resolved issues in 96 SSRS reports for reliable data insights.
- Migrated complex on-premises databases in Oracle and MS SQL Server 2005 to Azure-hosted SQL Server 2017.