

GANESAN S

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5+ years of experience in **statistical modeling**, **machine learning**, and **performance optimization**. Proficient in **Python**, **Java**, and **Spark MLlib**, with a strong background in **causal inference**, **mathematics**, and **big data technologies** (Postgres, Redis, Elasticsearch, Snowflake). Demonstrated expertise in building **reliable**, **scalable**, and **distributed systems** with measurable business impact.

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, Java, Kotlin, Go, R
Machine Learning:	SciKit Learn, TensorFlow, Spark MLlib, GloVe NLP, spaCy
Cloud & DevOps:	AWS (EC2, S3, Lambda, RDS), Azure (VMs, SQL, Blob Storage), Docker, Kubernetes
Big Data:	Postgres, Redis, Elasticsearch, Snowflake, Apache Kafka, RabbitMQ
AI/ML:	LLMs (OpenAI, GPT), TensorFlow, spaCy, GloVe NLP, Redis VectorDB
Concepts:	Causal Inference, Experimentation, Statistical Modeling, Distributed Systems, Git, Jenkins

WORK EXPERIENCE

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

Product Description: Job Board for contract IT roles

- **Developed statistical models** to optimize job recommendation algorithms using **spaCy NLP** and **pgvector** for skill/job vector storage, resulting in a 15% increase in job posting views.
- Built a **clickstream analysis microservice** using **Celery**, **ReactJS**, and **MongoDB** to analyze user interactions and improve engagement metrics.
- Improved system scalability by implementing **query result caching** and **optimized indexing** on **AWS DynamoDB** and **RDS**, reducing Time To First Byte (TTFB) by 20%.

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)

- **Applied causal inference techniques** to analyze prescription transfer requests, improving prescription compliance by 25%.
- Enhanced revenue recovery by developing an **automated insurance claims system** using **C# object pooling**, accelerating reimbursements and improving HIPAA compliance.
- Delivered in-depth **drug safety information** to patients by engineering a **.NET service** that linked prescriptions with **Medi-Span® data** using **.NET WPF Forms**.

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

Product Description: Document Manager for Construction Companies

- **Engineered a microservice** using **GloVe NLP** and **TensorFlow** for sentence embeddings, achieving 92% accuracy in generating on-demand regulatory insight reports.
- 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**.
- Enabled real-time GIS data delivery by implementing **spatial indexing** and **geocoding workflows** using **PostGIS & Google Maps APIs** in **NodeJS** and **ReactJS**.

Infosys | Full-Time | *Software Engineer* | Chennai, India Jul 2018 – Jul 2021

Product Description: Information System for Subsidized Housing Projects

- **Built and maintained scalable systems** by migrating complex on-premises databases from **Oracle** and **MS SQL Server 2005** to **Azure-hosted SQL Server 2017**.
- Enhanced data insights for cross-functional teams by creating **Power BI report templates** with **SQL Server Integration**.
- Resolved issues in 96 SSRS reports and provided long-term development support for property and contract management modules using **WPF .NET Framework 4.7.2** and **C# 6.0**.