Ganesan Santhanam

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MY IMPACT & EXPERTISE

- **Full-Stack Development & Diagnostic Expertise**: Specialized in building scalable systems, diagnostic tools, and improving platform reliability. Strong focus on performance optimization, data visualization, and telemetry data processing.
- **Cloud & Infrastructure Mastery**: Experienced in cloud environments like **AWS and Azure, with expertise in Kubernetes, CI/CD pipelines**, and distributed systems for seamless integration and scalability.
- **Collaboration & Problem-Solving**: Proven ability to collaborate across teams and geographies, delivering high-quality software solutions in ambiguous environments.

TECHNICAL SKILLS

Languages: C#, Python, JavaScript (ES6+), TypeScript, SQL Server, MongoDB, Redis, Apache Kafka, GraphDB, Go, C/C++
Frameworks: ASP.NET Core, ReactJS, Redux, Node.js, Django, REST APIs, TensorFlow, THREE.js, WebGL, OpenGL
Cloud & Tools: AWS (S3, Lambda, RDS), Azure (VMs, Blob Storage), Kubernetes, GitHub Actions, Splunk, RabbitMQ, Docker, Linux/Unix
Concepts: Diagnostic Tools, System Reliability, Data Visualization, HIL Testers, CI/CD Pipelines, Embedded Systems, Authentication Frameworks, 3D Graphics

PROFESSIONAL EXPERIENCE

Maxil Technology Solutions   May, 2024 — Present
Software Engineer   *Oak Brook, IL*

Product Description: Job Board for contract IT roles

- Developed a **clickstream analysis microservice using Celery, ReactJS, and MongoDB**, improving user engagement with a 15% increase in job posting views.
- Enhanced system performance by implementing query caching, stored procedures, and optimized indexing using **AWS (DynamoDB, RDS) with Node.js** and TypeScript.
- Containerized microservices using Docker and orchestrated deployments with Kubernetes, improving deployment efficiency and scalability.
- Integrated data visualization **dashboards using ReactJS and THREE.js** to provide actionable insights for stakeholders.

BestRx Pharmacy Software   Aug, 2023 — Apr, 2024
Software Engineer   *Oak Brook, IL*

Product Description: Pharmacy Management Suite (Point Of Sale, Inventory, Medical Billing)

- Designed a diagnostic tracking platform using **ASP.NET Core**, enhancing prescription compliance and improving customer experience.
- Developed automated insurance claim processing using **C# object pooling, accelerating reimbursements** while ensuring HIPAA compliance.
- Improved platform **UI/UX with custom-built ReactJS components** for seamless data presentation.
- Created a real-time monitoring dashboard for **faster issue detection and resolution using ReactJS and TypeScript**.
- Debugged production issues, performed root cause analysis, and deployed timely fixes to ensure platform stability.

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

Product Description: Document Manager for Construction Companies

- Engineered a diagnostic platform that used **PostGIS and Google Maps APIs** to identify high-risk construction sites.
- Delivered regulatory insights via a microservice with a **GloVe NLP model in TensorFlow and Redis VectorDB**.
- Developed a secure license key generator using Django, improving product security and subscription management.
- Built data labeling tools and visualization dashboards to support AI research workflows.

Infosys   Jul, 2019 – Jul, 2021
Software Engineer   *Chennai, India*
Product Description: Information System for Subsidized Housing

- Built diagnostic systems and enhanced data reliability for property management modules using WPF .NET Framework and C#.
- Migrated complex datasets from Oracle and MS SQL Server 2005 to Azure-hosted SQL Server 2017, leveraging cloud infrastructure to enhance database performance and optimize scalability.
- Developed automated validation tools for software releases, ensuring system reliability and performance.
- Utilized Linux/Unix environments and CI/CD pipelines to streamline deployment processes.

EDUCATION

University of Florida   Aug, 2021 – May, 2023
Master's of Science in Computer Science   *Gainesville, Florida*