

Ganesan Santhanam

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KEY ACCOMPLISHMENTS

- Increased user engagement by 75% by developing a scalable employer dashboard using **Node.js**, **Express.js**, and **MongoDB**, with **OpenAI APIs** for personalized content.
- Reduced data processing time by 50% by optimizing backend services using **JavaScript (ES6+)**, **Python**, and **NoSQL (DynamoDB)**, improving data-driven decision-making across platforms.
- Enhanced reporting efficiency by 45% by migrating legacy systems to a modern **React.js**-based dashboard and optimizing data pipelines from **SQL** to **MongoDB**.

WORK EXPERIENCE

Maxil Technology Solutions

May 2024 — Present

Software Engineer

Oak Brook, IL

- Developed and deployed a responsive employer dashboard using **React.js**, **Node.js**, and **MongoDB**, leveraging **RESTful APIs** and **GraphQL** for real-time data synchronization, improving user engagement.
- Built high-performance back-end services with **Node.js**, **Express.js**, and **AWS Lambda**, reducing latency by 20%, which enhanced scalability & improved user experience.
- Implemented **CI/CD pipelines** using **GitHub Actions**, **Docker**, and **Kubernetes**, accelerating the deployment process and ensuring smooth updates across the platform.

BestRx Pharmacy Software

Aug 2023 — Apr 2024

Software Engineer

Oak Brook, IL

- Automated insurance claims processing by developing **RESTful APIs** using **Node.js** and **Python**, reducing manual processing by 50%, leading to a 35% increase in claims accuracy.
- Built a prescription transfer tracking system using **Angular.js**, **Node.js**, and **PostgreSQL**, improving efficiency, streamlining workflow for pharmacists.
- Increased system reliability by developing multi-threaded services in **Node.js**, improving performance for real-time reports.

Autoreview.ai

May 2022 – Dec 2022

Software Engineer Intern

Gainesville, Florida

- Developed a document versioning system using **Node.js** and **Azure Blob Storage**, reducing versioning errors & increasing internal workflow efficiency.
- Enhanced document audit trail accuracy by 40% through the implementation of a history tracking system with **MongoDB** and **Python**, improving document retrieval and compliance accuracy.
- Achieved a 94% improvement in keyword extraction accuracy while ensuring regulatory compliance by developing an API using Google Vision, TensorFlow R-CNN, and GloVe NLP.

Infosys

July 2018 – July 2021

Senior Software Engineer

Chennai, India

- Improved system architecture by restructuring the backend using **JavaScript (ES6+)** and **Promise**, **Async-Await**, reducing response times by 40% and increasing code readability by 30%.
- Resolved database performance bottlenecks by introducing asynchronous processing and caching in **Node.js** and **SQL (PostgreSQL)**, reducing database load & improving system performance.
- Migrated legacy reports to a web-based reporting system using **React.js** and optimized data pipelines from **SQL Server** to **MongoDB**, enhancing reporting efficiency.

TECHNICAL SKILLS

Languages :	JavaScript (ES6+), TypeScript, Python
Framework:	React.js, Angular.js, Node.js, Express.js, Next.js
Technologies:	RESTful APIs, GraphQL, WebSockets, Webpack, Babel, Parcel
Devops / CI-CD:	Docker, Kubernetes, Git/GitHub, AWS, Azure, Jenkins, GitHub Actions
Databases / Message Queues:	SQL Server, MongoDB, PostgreSQL, Oracle, Redis, NoSQL, Graph databases
Other Skills:	Agile/Scrum, SASS, LESS, Responsive Design, Cross-Browser Compatibility

EDUCATION

University of Florida

Master's of Science in Computer Science

Aug. 2021 – May 2023

Gainesville, Florida