**Ganesan Santhanam**

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**EDUCATION**

University Of Florida, MS Computer Science 3.66/4 Aug 2021 – May 2023

SRM Institute of Science and Technology, B. Tech Computer Science 8.844/10 Jul 2014 – May 2018

**WORK EXPERIENCE**

*BestRx Pharmacy Software | Software Developer | Full Time Aug 2023 – Present\**

* Architected streamlined prescription management workflows with features like fax tagging, server-based database updates, and CSV-to-SQL conversion, catalyzing a 28% enhancement in user experience.
* Spearheaded the development of functionalities enabling automatic insurance claim generation and patient communication, yielding a 12% reduction in workflow duration, and bolstering operational efficiency.

*UF College of Nursing, UF | Data Management Analyst II | Full Time Jun 2023 – Aug 2023*

* Created an API leveraging an optimized database view of longitudinal dataset spanning five years, to generate insightful data visualizations and paginated table view of the datapoints enhancing the efficiency of research work by 300%.
* Implemented a real-time data collection feature leveraging Twilio's messaging and emailing capabilities to reduce missed interactions and enhance response rates, resulting in a substantial improvement of over 150%.

*Virtual Review Assist, UF Innovate | Machine Learning Developer, AI Team Lead | Internship May 2022 – Aug, Sep - Dec 2022*

* Engineered API to streamline document handling, enhancing operational efficiency and client satisfaction by utilizing the Google Vision API for text conversion, custom faster R-CNN model for 24% faster real-time image extraction and integrated GloVe NLP techniques trained on in-house dataset, achieving a 94% increase in keyword extraction accuracy, and ensuring 100% regulatory compliance.
* Led cross-functional teams in employing agile methodologies and platforms like GitHub and OKR sheets to develop innovative permit management software, resulting in a 40% revenue surge and doubled efficiency. Defined the average processing time as a key performance indicator (KPI) to gauge our ability to handle permit requests efficiently and optimize operations for clients.
* Contributed to building permit management software, resulting in a 35% revenue increase and 180% efficiency improvement. Deployed refined Docker images on AWS EKS for reliable performance supporting 15-20k concurrent connections per second, enhancing vital business operations.

*M.E. Rinker, Sr. School of Construction Management, UF | Graduate Assistant | Part-Time Apr 2022 – May 2022*

* Demonstrated expertise by developing scalable APIs for payment processing, user-license management, driving the interest/acquisition of initial stakeholders/customers significantly using STRIPE as payment gateway and CRUD APIs.

*Infosys Ltd | Senior System Engineer, System Software Engineer | Full-Time Jul 2018 – Jul 2021*

* Improved mapper classes by 34% through analysis, modular architecture implementation, automated testing, and enhanced error handling, resulting in streamlined regulatory compliance reporting and a 25% reduction in errors for BOFA's AML system.
* Identified and addressed bottlenecks in the data processing pipeline, implementing multi-threading algorithms to parallelize tasks resulting a 40% reduction in processing time and a 15% increase in system throughput, enhancing performance for more efficient handling of large datasets for Victoria DHHS information system. C#, SQL Server, Python, JavaScript, and Oracle
* Migrated 118+ SSRS to PowerBI reports and transferred data from SQL Server 2005 and Oracle to SQL Server 2017. Developed an automated testing system based on module dependency graph to ensure robust functionality and scalability.

**SKILLS**

***Backend****:*C#, Python, Visual Basic, JavaScript, RedwoodJs, Node.js; ***Database****:*MongoDB, SQL Server, PostgreSQL, Redis.

***Cloud and DevOps****:* GCP, AWS, Kubernetes; ***Machine Learning****:* Keras, PyTorch.

***Others***: Product Development, Design Thinking and Algorithmic Thinking.