

# GANESAN SANTHANAM

+1(352) 871-3468 ♦ Illinois, United States

[Gmail](#) ♦ [Linkedin](#) ♦ [GitHub](#)

## OBJECTIVE

---

Experienced software developer and data management analyst with 3+ years' experience. Passionate about driving innovation and efficiency in diverse industries. Skilled in workflow optimization, feature development, and cutting-edge solution implementation. Committed to continuous learning and growth, with expertise in product development and algorithmic thinking.

## EDUCATION

---

<b>M.S, Computer Science</b> , University Of Florida; 8.84/10	2021 - 2023
<b>B.Tech, Computer Science</b> , SRM University; 3.66/4	2014 - 2018

## SKILLS

---

<b>Back End</b>	C#, Python, TypeScript, Java
<b>Front End:</b>	HTML, CSS, JavaScript
<b>DBMS</b>	SQL Server, Oracle, Redis, MongoDB
<b>DevOps</b>	Docker, Kubernetes, AWS, GCP

## EXPERIENCE

---

<b>Software Developer</b>	Aug 2023 - May 2024
BestRx Pharmacy Software	<i>Illinois, US</i>

- Built an automated insurance claims system, reducing manual processing by 50%, improving claims accuracy by 35%, and increasing operational efficiency by 25%.
- Implemented a lookup screen to track request history and view incoming transfer requests for prescriptions, enhancing efficiency by 40%.
- Created a customized alert and promotional mail screen for customer groups, tailored to individual pharmacists, boosting outreach by 67%.

<b>Data Management Analyst II</b>	Jun 2023 - Aug 2023
University of Florida, Nursing	<i>Florida, US</i>

- Architected a dashboard to visualize and record insights for data points in a longitudinal dataset, improving research work efficiency by 80%.
- Implemented automated alerts using Twilio's messaging and emailing capabilities to reduce missed patient appointments, increasing participation and response rates by 210%.

<b>ML Engineer Intern, Software Engineer Intern</b>	May 2022 - Dec 2022
Autoreview.ai	<i>Florida, US</i>

- Developed an automated document versioning system utilizing Azure Blob Storage, resulting in a 50% reduction in versioning errors and ensuring seamless tracking of document revisions.
- Implemented a comprehensive document history tracking mechanism leveraging SQL Server for detailed activity logging, leading to a 40% improvement in audit trail accuracy and compliance adherence.
- Designed a user-friendly interface for accessing document history, enhancing user productivity by 30% through streamlined version retrieval and conflict resolution functionalities.
- Architected and developed microservices to orchestrate conflict resolution, permit progress tracking, and streamline administrative and user management workflows for an experimental product MVP, achieving a 40% increase in workflow efficiency and a 50% reduction in resolution time through robust microservice design and implementation.

- Designed an API to optimize document handling, boosting operational efficiency and client satisfaction by integrating Google Vision API for text conversion, a custom R-CNN model for 24% faster image extraction, and GloVe NLP techniques for a 94% increase in keyword extraction accuracy, ensuring full regulatory compliance.

### Graduate Assistant

Rinker School of Construction, UF

Jan 2022 - May 2022

*Florida, US*

- Engineered APIs for payment processing and user-license management, catalyzing stakeholder engagement and customer acquisition using STRIPE as a payment gateway, PostgreSQL for data storage, and implemented secure authentication with OAuth2, which increased revenue.

### Senior System Engineer, System Engineer

Infosys

Jul 2018 - Jul 2021

*Tamil Nadu, India*

- Collaborated with stakeholders to redesign the system architecture, implementing domain-driven design (DDD) and dependency injection, which decreased response times by 40%, improved code readability by 30%, and reduced testing time for endpoints by 50%.
- Resolved slowness issues caused by background tasks hitting the SQL Server 2017 database by implementing asynchronous processing and caching strategies in a .NET project, resulting in a 50% reduction in database load and a 40% improvement in application performance.
- "Achieved an increase in reporting efficiency by migrating 118+ SSRS to PowerBI reports and seamlessly transferring data from SQL Server 2005 and Oracle to SQL Server 2017, showcasing proficiency in SQL Server Analytics, and report designing skills.

## PROJECTS

---

**Simple Reddit, Jan 2022 – Apr 2022** Optimized API by implementing periodic rating functions for user profiles, posts, and comments, reducing MongoDB database polling. Enhanced image and file handler utilizing better image compression, resulting in a 2x improvement in API response time.

**Super Resolution, Jan 2022 – Apr 2022** Authored a robust metric, perceptual acceptance score to evaluate SRGAN, SRCNN, and ESPCN models using a custom loss function and uniform architecture, trained over 20-100 epochs on a 50K dataset. Integrated a preprocessing layer to improve model validity, reducing errors and increasing accuracy by analyzing programmable and non-programmable factors.

**Cache Simulator, Jan 2022 – Apr 2022** Created a cache system simulator analyzing the performance of LFU, LRU, and LPSU policies varying the parameters such as file size(10-1000MB), user traffic(10-60K), bandwidth, and cache space. The simulator collected data and enabled users to access simulation snapshots via custom command-line queries showing 12% in efficient cache handling.

**Compiler, Aug – Dec 2021** Constructed grammar rules that follow prominent OOPS-based statically typical language, built a compiler from scratch that analyses, and generates byte code, retaining productivity and performance to nearly 85-93% with O (N<sup>3</sup>) parser.

**Accident Avoidance, Jan – May 2018** Architected a CNN-LSTM based computer vision model with 99% accuracy for entity recognition, incorporated Raspberry PI for real-time notifications to alert drivers of proximal pedestrians, utilizing OpenCV, Neural Network, and embedded C programming.