



Skills

**Frameworks**

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Django, Spring Boot, Express.js, ASP.NET Core, Vue.js, VB.NET

**Programming Languages**

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Python, Java, JavaScript, C#, Go (Golang)

**Databases**

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PostgreSQL, Microsoft SQL Server, Oracle, MongoDB, Cassandra, Redis, Elasticsearch

**Frontend**

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HTML, CSS, JavaScript, React.js, Angular, Bootstrap, jQuery

**Deployment**

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Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Docker, Kubernetes, AWS CloudFormation, Azure Resource Manager (ARM), Jenkins, GitLab CI/CD

**Education**

**University of Florida**

Computer Science

3.61

**Aug 2021 - May 2023**

Master of Science

🔗 <https://www.cise.ufl.edu/>

**SRM Insitute of Science and Technology**

Computer Science

8.84

**June 2014 - May 2018**

Bachelor of Technology

🔗 <https://www.srmist.edu.in/>

**References**

**Deenadhayalan Subramaniam**

Infosys

Group Project Manager

**Ravi Srinivasan**

University of Florida

Dean of Rinker School of Construction

**Languages**

**English**

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**Tamil**

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**Volunteering**

**U&I Trust**

Education Volunteer

**Jan 2016 - May 2021**

Chennai, TN, India

🔗 <https://uandi.org.in/volunteer>

**Ganesan Santhanam**

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Profiles

[in](#) [Ganesan Santhanam](#)

🔄 [Ganesh96](#)

Experience

**BestRx Pharmacy Software** **Aug 2023 - Apr 2024**

Software Oak Brook, IL, USA

🔗 <https://www.bestrx.com/>

- 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%.

**University of Florida** **Jun 2023- Aug 2023**

Data Management Analyst II Gainesville, FL, USA

🔗 <https://nursing.ufl.edu/>

- 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%.

**Autoreview.ai** **May 2022 - Dec 2022**

Software Engineer Intern, Machine Learning Engineer Intern Gainesville, FL, USA

🔗 <https://autoreview.ai/>

- 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.
- 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.

**University of Florida** **Apr 2022 - May 2022**

Graduate Assistant Gainesville, FL, USA

🔗 <https://dcp.ufl.edu/rinker/>

- 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.

**Infosys** **Jul 2018 - Jul 2021**

Senior System Engineer, System Engineer Chennai, TN, India

🔗 <https://www.infosys.com/>

- 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**

🔗 <https://github.com/Ganesh96/simple-reddit>

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.

MongoDB, Data Pipeline, REST API, Golang, UI/UX

**Super Resolution** **Jan 2022– Apr 2022**

🔗 <https://github.com/Ganesh96/Super-Resolution>

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.

Tensorflow, Python, Databases

**Cache Simulator** **Jan 2022– Apr 2022**

🔗 <https://github.com/Ganesh96/cache-system>

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.

Python, Async Programming, Simulations, Google Colab GPU

**Compiler** **Aug 2021 – Dec 2021**

🔗 <https://github.com/Ganesh96/Compiler>

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 (N3) parser.

Java, Threading, Machine Code, JUnit, Testing, Design

**Soft Assistant (Road Safety)** **Jan 2018 – May 2018**

ArchitectedaCNN-LSTMbasedcomputervision 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.

Python, Design, Arduino, Tensorflow, Async Programming