

Carol Navya Pagolu

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EDUCATION

Master of Science in Computer Science

University of Florida

December 2022

Gainesville, FL

Bachelor of Technology in Computer Science and Engineering

Geethanjali College of Engineering and Technology

September 2020

Hyderabad, India

TECHNICAL SKILLS

Languages: Python, Java, C, Go, C#

Databases: MySQL, SQL, PL/SQL, PostgreSQL, MongoDB

Tools: Git, Docker, Kubernetes, AWS, Postman, Swagger, Prometheus, Grafana, Horovod, Dask, Modin

Web: HTML5, CSS, PHP, JavaScript, Flask, React, JSON, REST, ASP .Net

AI: Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, Open-CV, NLTK, SpaCy, RASA

WORK EXPERIENCE

Software Developer

January 2023 - Present

QualApps

Remote (Based in Sacramento, CA)

- Migrated OracleDB stored procedures and packages to PostgreSQL, enhancing performance efficiency by 30% through query optimization and multithreading techniques.
- Designed RESTful Web APIs in Python and ASP .Net for efficient management of geographic data handling 50000+ requests concurrently with 99% uptime.
- Spearheaded data validation and quality assurance initiatives by crafting intricate logic to ensure data integrity and reliability, contributing to a 20% reduction in data-related errors.
- Implemented comprehensive unit tests, covering critical code paths and edge cases to elevate code quality and stability, resulting in a 30% reduction in post-deployment defects.

Lead Software Development Engineer (Graduate Research Assistant)

December 2021 - Present

NSF Center for Space, High-performance, and Resilient Computing at University of Florida

Gainesville, FL

- Currently leading a team of 5 to develop a user-friendly Web Application, simplifying end-to-end AI model creation, monitoring, and evaluation, resulting in enhanced user productivity and satisfaction.
- Develop and execute scalable Microservices to employ an innovative Single-Button Solution simplifying complex operations, enabling non-experts to perform Data Analysis, Model Training, and Model Inference.
- Collaborate across cross-functional teams to engineer an Inference Dashboard supporting 20,000+ open-source NLP models, streamlining AI model serving, and monitoring critical performance metrics such as inference time and latency.

Software Developer (Graduate Student Assistant)

May 2021-December 2021

Department of Microbiology and Cell Science at University of Florida

Gainesville, FL

- Developed a standalone Tkinter-based workflow optimization tool enabling scientists to query context-specific data in high-volume data environments and boost research efficiency, robustness, and reproducibility by 30%.
- Improved data extraction and processing by designing data ingestion and transformation scripts, resulting in enhanced data quality and usefulness.

PROJECTS

UF Yelp (React, Golang, ORM, SQLite, REST API)

- Created a web application that harnessed data scraping from the UF Campus Map website, streamlining the process for students to find, sort, and review Gainesville establishments.
- Contributed to design, deployment, and maintenance, adhering to Agile methodologies.

SMS Alert System (Python, AWS SQS, AWS DynamoDB, AWS Lambda)

- Built a highly scalable distributed system using various Amazon AWS services to simulate the sending of large-scale SMS alerts, ensuring the smooth and efficient functioning of the system.

LEADERSHIP AND INVOLVEMENTS

- Manned a booth at the renowned Supercomputing conference, engaging with attendees and articulating the value of the lab research projects, and fostering valuable industry connections resulting in 3 collaborative partnerships.