

Profile

Highly motivated data engineer with a strong academic background and hands-on experience. Proficient in converting complex datasets into actionable insights for strategic decisions. Quick learner of new technologies and adept at effectively communicating findings to both technical and non-technical audiences. Known for organizational skills and dependability, managing multiple priorities and willingly taking on additional responsibilities to achieve team goals.

Areas Of Expertise

|                      |                              |                             |                    |
|----------------------|------------------------------|-----------------------------|--------------------|
| Data Engineering     | Agile Methodologies          | Web Application Development | Data Visualization |
| Cloud Infrastructure | Fostering Collaboration      | Deep Learning               | Data Processing    |
| Cloud Architecture   | Improving Business Workflows | AI & Machine Learning       | Kubernetes         |
| Data Science         | Data Analysis                | Project Management          | API Design         |

Professional Experience & Highlights

FLORIDA INTERNATIONAL UNIVERSITY (FIU) / MIAMI, FL

A Top 50 public university that drives real talent and innovation in Miami and globally.

Student Research Analyst, IBT/ABC-UTC / March 2024-Present

- Performing comprehensive data collection, processing, and analysis to support the federally funded, tier one Innovative Bridge Technologies/Accelerated Bridge Construction-University Transportation Center (IBT/ABC-UTC), one of only 20 tier one UTCs that were funded recently
- Played a key role in the creation, compilation, and dissemination of detailed reports and presentations, effectively communicating research findings to stakeholders
- Fostered collaborative relationships with project teams, engaging in literature review data analysis and contributing to the development of research projects within my area of expertise

Computer Science Grader and Student Teacher Assistant / January-April 2024

- Facilitated knowledge sharing by conducting tutorial sessions that enhanced students' understanding of complex DBMS concepts and practical applications
- Contributed to technical enhancements by recommending and integrating software tools that streamlined the grading process and improved instructional delivery

SPRINGML / HYDERABAD, TS

A technology services company with leading cloud, data engineering, analytics, and artificial intelligence (AI) capabilities. Merged with Egen in 2023.

Associate Data Engineer / 2022-2023

- Designed and developed business rules database communications and supported custom applications and interfaces
- Assisted in product development projects and performed technical and administrative data collection and analysis tasks
- Led migration of client on-premises applications to Google Cloud, improving performance and efficiency.
- Built a custom monitoring dashboard using Anthos Service Mesh to enhance server management and monitoring capabilities for clients
- Previously interned as a Consultant Data Engineer, playing a key role in the development of the "SpringML Javelin Accelerator," an internal service for migrating, optimizing, and modernizing Java applications

## Recent Projects

### *Transportation Equity Analysis / November-December 2023*

- Worked with a team to analyze income-based travel disparities in Florida using NHTS data from 2001, 2009, and 2017
- Analysis unveiled trends in remote work, the impact of online shopping, and transportation modes among different income groups
- Employed advanced data analysis techniques, including data cleaning, oversampling, and feature selection, to derive actionable insights for equitable transportation policies and urban planning

### *Apriori Algorithm Implementation / October-November 2023*

- Collaborated with a team to implement the Apriori algorithm, which enabled the generation of association rules based on user-defined support and confidence thresholds
- Developed a Python-based program that leveraged the Apriori algorithm steps, from reading input data to generating frequent itemsets and association rules

### *PubWise oRTB Application Migration / December 2022-May 2023*

- Migrated the PubWise ad bidding application to Google Cloud Platform, improved server performance using microservices on Google Kubernetes Engine (GKE), and created a custom monitoring dashboard on Anthos Service Mesh
- Collaborated with the client to enhance application performance on Google Cloud

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## Technical Portfolio

**Programming Languages:** C, Java, Python, JavaScript, R

**Cloud Computing:** Google Cloud Platform and its components

**Performance Testing:** k6 Load Testing, Locust Load Testing

**Web Technologies:** HTML, CSS, Angular JS, Flask, Node.js, WordPress

**Database Management:** MongoDB, SQL

**Computing:** Load Balancing, Kubernetes, Dataflow, CI/CD, Dialogflow, Microsoft Excel, Looker, Docker

**Machine Learning:** Classification and Regression Algorithms

**Neural Networks:** ANN, CNN, RNN

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## Professional Development

Microsoft Certified: Azure AI Fundamentals

Introduction to Data Science Specialization, Coursera

Introduction to Cyber Security Essentials, Cisco

Associate Cloud Engineer Certification, Google Cloud

Professional Cloud DevOps Engineer, Google Cloud

Professional Data Engineer Certification, Google Cloud

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## Strengths

Problem Resolution / Enthusiastic / Motivated / Multitasking / Clear Communication / Flexible / Efficient / Reliable / Critical Thinking

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## Education

**Pursuing a Master of Science in Computer Science** / Florida International University / Miami, FL / 2025

*Highlights: GPA: 4.0, elected as a Student Member of the FIU Student Conduct and Academy Integrity team, B&N Book Scholarship recipient*

**Bachelor of Engineering in Information Technology** / Vasavi College of Engineering / Hyderabad, TS / 2022

*Highlights: GPA: 3.6, Student Coordinator for the National Service Scheme*