**Ravi Chandra Mathi**

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**summary of qualifications**

Current student working toward master's in computer science and seeking opportunity to begin career. Identifies and quickly closes any knowledge gaps to offer value to employer and team. Capable Data Engineer with a blend of internship and full-time experience at SpringML IDC. Offers strong Cloud computing, web development, Data Analytical and Visualization abilities. Excited about opportunity to take next career step with willingness to take on any task to support team and help business succeed.

**SKILLS**

* Programming Languages: C, Java, Python, JavaScript, R.
* Cloud Computing: Google Cloud Platform and its components.
* Performance Testing: K6 load testing, Locust testing.
* Web Technologies: HTML, CSS, Angular JS, Flask, Node.js, WordPress.
* Database Management: MongoDB, SQL.
* Load balancing, Kubernetes, Dataflow, CI/CD, Dialogflow, Microsoft Excel, Looker, Docker.
* Machine Learning: Classification and Regression algorithms.
* Neural Networks: ANN, CNN, RNN.

**education**

**Master of Science in Computer Science. August 2023 - April 2025**

Florida International University; Miami, FL, USA.  
CGPA: 4.0   
Course Work: Introduction to Data Science, Principles of Data Mining, Data Analysis, Operating System, Fundamentals of Computer Security, Advance Deep Learning.

**Bachelor of Engineering in Information Technology. June 2018 – June 2022**

Vasavi College of Engineering; Hyderabad, TS, India.  
CGPA: 3.6  
Course Work: C, Data Structures, Discrete Mathematics, Advance Data Structures, Object Oriented Programming, Python, Software Engineering, Database Management Systems, Probability and Statistics, Design and Analysis of Algorithm, Linear Algebra, Data Communication and Computer Networks, Operating Systems, Artificial Intelligence and Machine learning, Web Technologies, Compiler construction, Distributed Systems and Cloud Computing, Cryptography and Network Security, Object Oriented Analysis and Design, Neural Networks and Deep Learning, Software Testing, Software Project Management, Blockchain.

**Higher Secondary Education (11th and 12th Grade) 2016-2018**

Narayana Junior College, Hyderabad, TS, India.

Score: 972/1000

**High School (10th Grade) 2015-2016**

St. Alphonsa's High School, Hyderabad, TS, India.

CGPA: 9.7/10

**internship**

**SpringML IDC** | Hyderabad, TS, India. **February 2022 - July 2022**

*Consultant Data Engineer*

* Built productive working relationships and collaborated across organization to meet project needs.
* Used technologies to revitalize lagging business processes.
* Completed comprehensive training on all components of Google Cloud Platform.
* Acquired extensive expertise in Google Cloud Platform, improved skills in cloud architecture and application development backed by notable "Associate Cloud Engineer" certificate provided by Google cloud.

**work experience**

**Florida International University |** Miami, FL**,** USA**. March 2024 - present**

**Student Research Analyst**

* Performing comprehensive data collection, processing, and analysis to support the IBT/ABC-UTC objectives.
* 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.

**Florida International University** | Miami, FL, USA. **January 2024 – April 2024**

***Grader/ TA***

* Facilitated knowledge sharing by conducting tutorial sessions that enhanced students' understanding of complex DBMS concepts and practical applications.
* Engaged in bi-directional learning by addressing student queries, which also deepened my own grasp of database management systems.
* Contributed to technical enhancements by recommending and integrating software tools that streamlined the grading process and improved instructional delivery.

**SpringML IDC** | Hyderabad, TS, India. **August 2022 - May 2023**

***Associate Data Engineer***

* Delivered robust cloud-based solutions in collaboration with product managers.
* Defined architecture for data management systems based on needs of internal consumers.
* Designed, developed, and implemented full-stack development tools and technologies.
* Earned "Professional Data Engineer" and "Professional Cloud DevOps Engineer" certificates by Google Cloud.
* Demonstrated strong attention to detail and a commitment to quality while working with staff and participants, contributing to a lively and positive work environment.

**Preparation for Graduate Studies May 2023 - August 2023**

* Resigned from SpringML IDC to prepare for relocation to the United States and commence graduate studies at Florida International University.

**projects**

**Transportation Equity Analysis** | FIU, FL, USA.  **November 2023 – December 2023**

* Collaborated with a team analyzing income-based travel disparities in Florida using NHTS data (2001, 2009, 2017), unveiling trends in remote work, online shopping impact, and transportation modes among different income groups.
* Investigated sociodemographic travel patterns, residence locations, commuting distances, and school commuting influences, discerning urban-rural disparities, and income-related effects.
* 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** | FIU, FL, USA.  **October 2023 – November 2023**

* Collaborated with a team to implement the Apriori Algorithm, enabling the generation of association rules based on user-defined support and confidence thresholds.
* Developed a Python-based program, leveraging the Apriori algorithm steps, from reading input data to generating frequent itemsets and association rules.
* Produced output files containing detailed summaries of frequent itemsets, association rules, and essential project information, ensuring adherence to project guidelines.

**Pubwise ORTB Application Migration** | Hyderabad, TS, India. **December 2022 - May 2023**

* Migrated Pubwise on-premises Equinix bare metal ad bidding application to Google Cloud Platform.
* Managed and improved performance of existing servers using Micro service-based architecture with Google Kubernetes Engine.
* Created a custom monitoring dashboard on Anthos Service Mesh for collecting telemetry data.
* Collaborated with client to maintain, monitor, and enhance application's performance on Google Cloud.

**Navy POC** | Hyderabad, TS, India. **July 2022**

* Developed a web-based application using Angular and Flask for monitoring the shipments across different ports.
* Connected the application to Cloud Firestore for storing the data related the shipments.

**SpringML Javelin Accelerator** | Hyderabad, TS, India. **May 2022 - June 2022**

* Conceptualized to development of Javelin Accelerator, a java web-based application used for migration, optimization, and modernization applications.
* Competed a key role in developing APIs enhancing performance and efficiency of applications.

**A Comparison of Regression Models for Prediction of Graduate Admissions** | Hyderabad, TS, India.   
 **February 2022 - April 2022**

* Executed a comprehensive analysis comparing various Machine Learning algorithms to forecast likelihood of student admission based on multiple characteristics.
* Implemented and evaluated models Random Forest, Logistic regression, Support Vector machine to predict graduate admissions.
* Employed k-fold cross validation technique so models read correct patterns from data.

**Online Image Editor** | Hyderabad, TS, India. **October 2021 - December 2021**

* Collaborated with a team of peers in developing an "Online Image Editor Application.".
* Created Web-based application with various image editing features for enhancing and transforming images.
* Employed Green screen image background removal technique for custom background replacement and integrated steganography techniques for hiding images within other images.

**certifications**

* Microsoft Azure AI Fundamentals
* Introduction to Data Science, Coursera
* Introduction to Cyber Security Essentials, CISCO.
* Associate Cloud Engineer, Google Cloud
* Professional Cloud DevOps Engineer, Google Cloud
* Professional Data Engineer, Google Cloud.

**extracurricular involvement**

**Student Representative September 2023 - Present**

*FIU Student Conduct and Academic Integrity;* Miami, FL, USA

* Elected as a Student member of the FIU Student Conduct and Academic Integrity team, enforced the university's Code of Conduct, safeguarding the safety and well-being of the university community.

**Student Coordinator September 2018 - June 2022**

*National Service Scheme (NSS-VCE);* Hyderabad, TS, India.

* Served as a Coordinator and Volunteer), leading initiatives such as blood donation camps, open defecation awareness, rural sanitation camps, and supporting a government school with education resources.

**SCHOLARSHIPS**

**B&N Book Scholarship:** The B&N Book Scholarship, a prestigious academic award, was bestowed upon me in recognition of my commitment to academic excellence. This scholarship provided invaluable support for covering the costs of essential textbooks and educational materials required for the Fall 2023 semester.

**personal interest**

Travelling, Cricket, Motorsport (Formula 1), Solving puzzles.