VIVEK REDDY SURAM

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EDUCATION

Master's in computer science | *New Mexico State University, New Mexico* **May 2025**

Bachelor's in information technology| *CVR College of Engineering, Hyderabad, India.* **July 2023**

CORE COMPETENCIES AND TECHNICAL SKILLS

- **Programming Languages:** C#, Python, java, JavaScript, TypeScript, PHP, C, C++, GDScript
- **Frameworks & Tools:** Angular**,** REACT**,** ASP.NET Core, Entity Framework, MVC, Streamlit
- **API Development:** RESTful API Design
- **Databases:** SQL Server, MySQL, MongoDB
- **Data Integration:** ETL, Power BI, Tableau
- **Soft Skills:** Communication, Problem Solving, Leadership, Analytical Skills, Client Management, Teamwork

PROFESSIONAL EXPERIENCE

Embedded Systems Teacher Assistant | *New Mexico State University, New Mexico* **Jan 2024- Present**

- Delivered hands-on guidance to undergraduate students, designing and supervising Embedded Systems lab projects, enabling a deeper grasp of C programming principles and Arduino-based system design.
- Engineered code prototypes for ultrasonic sensor-based robotic cars, providing students with functional templates to design dynamic obstacle-detection systems and 360-degree maneuvering robots.

Software Engineer **Jul 2022- Aug 2023**

Unosis IT Solutions Pvt Ltd. | Bengaluru, India

- Worked for a major MNC on the complete software development lifecycle for complex web applications.
- Designed and deployed scalable web applications using **Java, React.js,** and **Spring Boot** to deliver secure and efficient solutions, enhancing user accessibility and performance.
- Integrated **Oracle, PostgreSQL, and MongoDB** databases to streamline data handling, reducing response time by 25%.
- Implemented **RESTful APIs** and automated build processes using **Maven** and **Gradle**, ensuring seamless integration between client-side and server-side components, improving application performance and scalability.
- Integrated **AWS services** such as **Lambda, S3, and DynamoDB** to manage back-end processing and data storage, improving scalability and data management.
- Deployed applications using **Docker** containers and AWS Console services, ensuring consistent environments across development, testing, and production, improving deployment efficiency.
- Created modular, reusable **React** components for better maintainability, reducing redundant code across the front-end development.

PROJECTS

Uphill Adventure- Game **Dec 2024**

- Designed a 2D car game with procedural terrain, complex speed controls, and four progressive levels in Godot Engine, integrating Go Logger to streamline debugging and improve runtime efficiency by 30%.
- Integrated advanced gameplay mechanics such as gear-shifting, dynamic weather effects, and variable terrain conditions, significantly enhancing player engagement by 40% through iterative testing.

Real-time processing of stocks and calculating SMA range ratios **Nov 2024**

- Built a real-time stock data processing system using Python, retrieving live data directly from Polygon.io with a 15-minute delay, ensuring accurate insights into intraday market trends and trading patterns.
- Implemented algorithms to calculate Simple Moving Average (SMA) range ratios for multiple stocks, optimizing computation time by 25% to significantly enhance data-driven decision-making accuracy.

Buddly- Smart S **March 2024**

- Crafted an e-commerce application for a local sweat shop with a personalized product recommendation using React, Node.js, and MongoDB, leveraging content-based filtering algorithms to increase user engagement by 20%.
- Collaborated cross-functionally with designers and product managers to create the "Recommended for You" section, integrating user behavior analytics with dynamic frontend components to provide tailored products.
- Engineered scalable backend services to log and process user activity data, utilizing MongoDB's flexible schema design and RESTful APIs to always ensure efficient data retrieval and consistent system performance.

CERTIFICATIONS

AWS Certified Developer - Associate