

PRAJWAL SRINIVASAMURTHY

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EDUCATION

Sri Venkateshwara College of Engineering
Computer Science Engineering, CGPA: 8.61/10

Bengaluru, India
2019-2023

Texas Tech University
Master's in Computer Science, GPA: /5

Texas, USA
2025-Present

WORK EXPERIENCE

CSGI

Bengaluru, India
2023-Present

Software Developer – Full Stack

- Developed **REST APIs** and integrated multiple payment methods into the existing application, enhancing transaction efficiency and performing thorough **unit testing** to ensure stability.
- Led the migration of a large-scale project from **MSSQL to PostgreSQL**, successfully handling data conversion, testing, and application updates, resulting in improved performance and scalability.
- Implemented security measures to restrict attacks on **legacy applications**, ensuring enhanced data protection and application stability.

CSGI

02/2023 – 08/2023

Software Developer Intern

- Gained proficiency in **full-stack** development, contributing to both front-end and back-end tasks using **Database, Angular** and **.NET** technologies.
- Contributed to payment flow enhancements by implementing logic changes in the front end and conducting thorough testing.
- Wrote unit test cases using Karma and Jasmine for Angular components, ensuring higher test coverage and application reliability, modularized the entire Angular project.

Exposys Data Labs

Bengaluru, India

Data Science Intern

08/2022 – 09/2022

- Developed a **diabetes prediction** model using machine learning algorithms like Logistic Regression, KNN, and Decision Trees, improving prediction accuracy through data preprocessing and feature engineering.

ACADEMIC PROJECTS

Smart Irrigation using IOT

- Designed and implemented an **IoT-based smart irrigation system** using DHT11, Moisture sensors, and PIR sensors on a TTGO board, with automated motor control and remote management via SMS and a cloud-based GUI.
- Enabled remote access and real-time data monitoring through a 2G network, allowing farmers to control the system from any location.

Covid 19 – Database Management System

- Developed a **full-stack web platform for COVID-19 test booking**, status tracking, and result downloads, using **PHP, SQL** for backend, and **HTML, CSS** for frontend.
- Designed the system architecture, managed the database, and conducted testing to ensure secure, scalable, and efficient handling of patient data.

Rocket Launching Simulation System

- Developed a 3D rocket launching simulation system using **C++** and **OpenGL**, creating an interactive graphical model of the launch process.
- Designed the simulation from scratch, focusing on accurate modeling and graphical representation of the rocket launch.

PUBLICATIONS

- Encoding Classical Messages in Quantum States. ([Link](#)) 09/2023
- Noise Resilience in quantum computing: Techniques for error correction and mitigation Ongoing

SKILLS

Technical Skills: Angular, Dot Net, SQL, PostgreSQL, AWS, Python, Unit Testing.

Other Skills: Agile Methodology, Operations Management, Process Planning, Project Management, Product Management.