

# Gurusujan Reddy Madem

📍 Kurnool, Andhra Pradesh, India ✉ gurusujanreddymadem@gmail.com ☎ +91 6281440794 🌐 in/guru-sujan

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## SUMMARY

Proactive programmer with expertise in C++ and frontend development. Designed and executed projects that mirror real-world applications, coupled with strong communication and problem-solving skills.

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## EXPERIENCE

### Electronic Engineer Intern

Techavanto Pvt Ltd

May 2022 – August 2022, Delhi, IN

- Developed an autonomous vehicle as a cutting-edge project, showcasing my proficiency and passion for the domain.
- Explored various IDEs and integral components including Arduino, Buzzer, Ultrasonic Sensors, and Temperature Sensors, deepening my hands-on experience.
- Utilized software tools such as Arduino and TinkerCAD, emphasizing my adaptability and comfort with diverse technological platforms.

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## PROJECTS

### Dynamic Web Customization Platform with Integrated Calculator

November 2022 – December 2023

- Developed a user-centric web application that provides the flexibility to customize website colors, enhancing user experience.
- Integrated a calculator feature, enhancing the website's functionality beyond aesthetics.
- Crafted using HTML, CSS, and JavaScript, demonstrating expertise in front-end web development.

### Comprehensive Hospital Administration Prototype in Java Swing

March 2023 – May 2023

- The Hospital Management System, crafted in Java Swing, efficiently manages patient, doctor, and staff records in a prototype setting.
- Features incorporated include appointment scheduling, patient management, billing, invoicing, and potential for monthly report generation.
- Centralizes the File Management system for potential scalability and enhanced data security in hypothetical hospital scenarios.
- Designed with an intuitive interface, this prototype aims to showcase potential operational enhancements in hospital settings.

### Advanced Taxi Booking and Management Database System

October 2022 – December 2022

- Developed a user-friendly database for taxi booking and cancellation, mirroring the functionality of popular platforms such as OLA and UBER.
- Enabled users to instantly access key details: travel distance, pricing, pickup location, drop destination, and comprehensive driver profiles.
- Skillfully executed using Oracle and SQL v12, showcasing proficiency in robust database management.

### Desktop Virtual Banking System in C++

March 2021 – April 2021

- Crafted a comprehensive financial system in C++ that securely manages user information through file handling, simulating real-time bank account monitoring.
- Operates seamlessly as a desktop-based virtual bank, handling user data akin to a digital piggy bank.
- Built using C++, showcasing proficiency in creating efficient financial applications.

### Real-time Cricket Match Simulator in C++

February 2021 – April 2021

- Developed a cricket game application allowing users to select the game format and receive real-time score updates, reflecting traditional cricket scoreboards.
- Added an over feature with three different forms, which activates upon user score entry and calculates results for both teams to ensure accurate outcomes.
- Built using C++, showcasing proficiency in creating engaging gaming applications.

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## SKILLS

Programming languages:

C, JAVA, SQL, CSS, HTML5, PYTHON, C++, JavaScript, Verilog

Technology Stack:

MATLAB, Arduino, Tinker CAD, PSpice, Proteus, CADENCE, LabView

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## CERTIFICATIONS

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### VLSI CAD PART-1 :LOGIC

Coursera • 2023

Certification from the University of Illinois at Urbana-Champaign emphasizing VLSI logic building challenges.

### Java Programming: Solving with Problems with Software

Coursera • 2023

Certification from Duke University centered on mastering software problem-solving techniques.

### HackerRank SQL

Hackerank • 2022

Awarded by HackerRank for successfully clearing the exam.

### Crash Course On Python

Coursera • 2022

Enhanced Python skills through a certification issued by Google

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## COURSEWORK

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### Programming in Java

Lovely Professional University • 202320 • Java,

Designed a hospital management system leveraging advanced concepts.

### Introduction to C++

Lovely professional University • 2022 • C++

Developed projects, including a banking system, utilizing in-depth C++ concepts.

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## INVOLVEMENT

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### Volunteer

Save the Children • August 2020 - Present

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## EDUCATION

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### B.Tech. in Electronics and Communication

Minor in Robotics And Automation • Lovely Professional University • Phagwara, IN • 2024 • 7.81