VEERAMALLA AKHILA

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Projects

Gesture Game Controller — C++ *2022*
- Designed a simple game control system where hand gestures act as player inputs.
- Converted raw sensor readings into stable movement commands using C++ logic.
- Focused on real-time responsiveness and smooth user control during gameplay.

Vehicle Rental Website — React, Firebase *2024*
- Developed a vehicle rental website that allows users to browse, book, and manage rentals online.
- Implemented secure login and real-time data updates using Firebase Authentication and Database.
- Created an admin interface to track bookings, users, and vehicle availability.

Mini C Compiler — C++ *2025*
- Built a basic compiler to understand how C programs are processed internally.
- Implemented tokenization, syntax checking, and semantic validation for input programs.
- Learned core compiler concepts such as symbol tables, scopes, and error reporting.

Experience

Samsung Innovation Campus – Smart Street Light *2024–2025*
- Worked on an IoT-based street lighting system that adjusts brightness based on surroundings.
- Used sensors and MQTT to automate lighting and reduce unnecessary power usage.
- Connected devices to AWS IoT Core for monitoring and remote control.

CEDTRO – Smart Home Automation *2025*
- Developed a web interface to control home appliances remotely.
- Integrated sensor data for real-time status updates using MQTT.
- Deployed application on cloud platform to improve accessibility and reliability.

Prodigy Infotech – Web Development Intern *2024*
- Built small web applications including portfolio pages and interactive games.
- Improved page responsiveness and usability across different screen sizes.
- Gained hands-on experience with frontend development and API usage.

Education

IIITDM Kurnool	**CGPA: 6.2**
B.Tech — Computer Science and Engineering	*2022–2026*
Sri Chaitanya Junior College	**70.2%**
Intermediate (MPC)	*2020–2022*
Tagore Vidyalayam High School	**CGPA: 10**
SSC Board	*2019–2020*

Skills

Programming: C, C++, Python, Java
Web: React, HTML, CSS, JavaScript, Node.js, Firebase
Databases: MySQL, PL/SQL, Firestore
Areas: IoT, Cloud Computing, Compiler Design, Full Stack Development
Tools: Git, VS Code, Postman, AWS IoT Core, GCP

Certifications

NPTEL: Data Science for Engineers - (2024)
NPTEL: Data & Privacy in Online Social Media - (2025)
NPTEL: Organizational Behaviour-II - (2025)
NPTEL: Mental Health & Wellbeing - (2025)

Achievements

- Won 2 Silver and 1 Bronze medals in Inter-IIIT sports competitions.
- Secured 1st Rank in SSC Board (2020).
- Achieved 95.5% in JEE Mains (2022).