# JERWIN MANUEL

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## EDUCATION

| Course | Year | Institute | Performance |
|---|---|---|---|
| B.Tech. Electronics & Computer Engineering | 2022–2026 | VIT University | CGPA: 8.04 |
| Class XII (CBSE) | 2022 | Sri Chaitanya Techno School | 84.40% |

## SCHOLASTIC ACHIEVEMENTS

- Awarded for consistent academic excellence in high school, ranking among the top **5%** of the batch.

- Recognized for leadership and contribution in multiple technical and management events at **VIT University**.

- Completed **TensorFlow AI specialization** by Google Developers.

- High performance in university AI/ML, IoT, and programming modules.

## INTERNSHIP AND WORK EXPERIENCE

### Front-End Development Intern – Orinson Technologies

- Led front-end development using **HTML, CSS, JS**; improved UI/UX significantly.

- Enhanced load times by **30%** and increased user engagement by **25%**.

- Built dashboards for real-time car rental platform.

### Machine Learning Intern – Google Developers & SmartInternz

- Built a traffic volume prediction model with **93%** accuracy using regression.

- Incorporated holiday recognition and time-based data for better accuracy.

- Found potential GDP improvement of **0.12%** on deployment.

## PROJECTS

### Hardware-Based GPS Signal Transmission System (IGPM)

- Developed a towerless GPS system using short-range signal modules.

- Integrated SQL for real-time traffic monitoring.

- Improved tracking accuracy by **3%**, extended range by **0.4%**.

### Eco-Friendly Car Rental Platform

- Built dual-role user system: rent a car or list your vehicle.

- Developed pricing logic based on $CO_2$ emissions.

- Admin dashboard for managing rentals and feedback.

### Heart Rate Monitoring with AWS IoT Core

- Sent real-time data (HR, SPO2, fall detection) via **MQTT**.

- Used **AWS services** for data visualization and alerts.

## TECHNICAL SKILLS

| Skill | Proficiency |
| --- | --- |
| **Python** | **Advanced** |
| Java, C++ | Intermediate |
| **HTML, CSS, JavaScript** | **Advanced** |
| PHP, SQL, MySQL | Intermediate |
| AI/ML (TensorFlow), R, AWS IoT | Intermediate |

## CORE SKILLS

- **Management & Leadership**, Public Relations
- **Critical Thinking & Problem Solving**
- **Digital Marketing**, Communication
- **Data Visualization**, Git/GitHub, Budgeting

## LANGUAGES

- English (**Professional** proficiency)
- Tamil (**Native** proficiency)
- Hindi (**Limited** proficiency)
- German, Spanish (**Basic** proficiency)

## EXTRA-CURRICULAR ACTIVITIES

- Volunteered in university tech fests and outreach programs.
- Participated in **university-level** coding competitions.
- Chess enthusiast with strong tactical skills and effective use of opening strategies.