

# HARSHIT VOOTUKURI

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## EDUCATION

### Vellore Institute of Technology

B.Tech Computer Science, specialization in Data Science; CGPA 8.75

Vellore, Tamil Nadu

2022 – 2026

### FIITJEE Junior College

Intermediate Education; Intermediate Public Examination 96.4%

Hyderabad, Telangana

2020 – 2022

## TECHNICAL SKILLS

**Languages:** Python, Typescript, Rust, Go, R, C/C++, Java

**Frameworks and Libraries:** Next.js, React, Tensorflow, Scikit-Learn, Pandas, Numpy

**DevOps:** Git, Github, Docker

## EXPERIENCE

### IFB Industries Ltd.

Data Analytics Intern

June 2024 – July 2024

Verna, Goa

- Data Collection and Cleaning:** Collected, cleaned, and organized large datasets from multiple sources, ensuring data accuracy and consistency. Utilized tools like Python (Pandas, NumPy), SQL, and Excel for data preprocessing and analysis.
- Statistical Modeling and Forecasting:** Applied time series analysis techniques to model seasonal patterns, providing actionable insights to optimize marketing and operational strategies.
- Geolocation Verification Project:** Engineered a geospatial validation pipeline to verify store location coordinates, ensuring data integrity across all geographical records. Utilized Python libraries (Numpy, Pandas) and Google Maps API for geolocation data handling, verification, and visualization.

### Association for Computing Machinery (ACM-VIT Student Technical Chapter)

Developer, Senior Core Member

April 2024 – Present

Vellore, Tamil Nadu

- Development:** Designed and developed applications that enhanced student access to the institutional portal, collaborating with a cross-functional team of developers to implement responsive design principles ensuring seamless accessibility across all devices.
- Education Initiatives:** Established and facilitated weekly Systems Reading Groups examining critical technical concepts including OWASP Top 10 vulnerabilities, database systems architecture, and version control system best practices.
- Event Management:** Served as an organizing committee member for multiple workshops and coding competitions, contributing to event coordination and formulation of technical challenge questions.

## PROJECTS

### CLI-TOP (CLI Tool for Student Portal)

Software Developer

October 2024

Vellore, Tamil Nadu

- Technical Development:** Developed a **Golang-based CLI application** for the student portal, designing a robust course material downloader that automated content organization and improved student workflow efficiency.
- Software Optimization:** Implemented **performance optimizations** across the application, significantly reducing respond times.
- User Adoption and Interface Design:** Designed an intuitive command-line interface that drove organic user adoption, achieving **100+ active student users** without formal marketing.
- Documentation and Knowledge Sharing:** Authored comprehensive developer documentation covering codebase architecture, setup procedures, and contribution guidelines to facilitate project maintenance and onboarding of new contributors.

## CLI-RPG (CLI game built in Rust)

Game Developer

June 2024

Vellore, Tamil Nadu

- **Project Leadership and Development:** Spearheaded the development of an interactive role-playing game as a **CLI application** in **Rust**, leveraging **multi-threading** and efficient **data structures** to enhance performance and manage in-game mechanics seamlessly.
- **Project Management and Integration:** Led the integration of additional games, including **Minesweeper** and a **typing test**, while implementing **background music** using the Rodio crate, showcasing versatility in game development and audio integration.
- **User Experience Design:** Focused on creating engaging, **interactive user experiences** within the CLI environment, with intuitive controls and **responsive gameplay**, prioritizing smooth and immersive player interactions.
- **User Engagement:** Achieved significant adoption among college peers, with **100+ downloads** and an **active player base** within the campus, demonstrating the project's broad appeal and relevance to diverse student interests.

## CERTIFICATIONS

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Google Cybersecurity Professional Certificate 

December 2024

## EXTRACURRICULAR

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Technical Director, French Literary Association VIT

January 2025 – Present

- Organized and conducted educational events on French culture and history, and taught French language classes, enhancing participants' cultural awareness and language skills.