HARSHIT VOOTUKURI

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EDUCATION

Vellore Institute of Technology
B.Tech Computer Science, specialization in Data Science; CGPA: 8.73

Vellore, Tamil Nadu
2022 – 2026

FIITJEE Junior College
Intermediate Public Examination 96.4%

Hyderabad, Telangana
2020 – 2022

EXPERIENCE

Garner Business
Software Development Engineer Intern

May 2025 – July 2025
Remote

- **Built automated email systems** using Next.js API routes and TypeScript with **Amazon SES integration**
- Developed a **content creation and review pipeline** supporting version control and approval stages.
- **Handle email replies** via **AWS Lambda and SES** inbound routing with multi-sender authentication

ACM-VIT Student Chapter
Developer, Senior Core Member

April 2024 – May 2025
Vellore, Tamil Nadu

- **Developed student portal access tools** to improve institutional system usability
- **Organized technical reading groups** on OWASP, database internals, and Git workflows
- **Managed technical events** with **over 700 participants** including workshops and programming competitions

IFB Industries Ltd.
Data Analytics Intern

June 2024 – July 2024
Verna, Goa

- **Cleaned and analyzed large datasets** using **Python (Pandas, NumPy), SQL, and Excel**
- Built **time series forecasting models** for seasonal pattern analysis and marketing optimization
- Developed **automated coordinate verification pipeline** using Python and Google Maps API

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Rust, Go, R, Typescript, SQL
Development Tools: Linux, Bash, Git, Github, Vercel
Databases & Backend: Postgres, MySQL, REST
Frameworks and Libraries: React, Next.js, Tensorflow, Scikit-Learn, Pandas, Numpy
Cloud Platforms: Microsoft Azure, Google Cloud Platform (GCP), Amazon Web Services (AWS)

CERTIFICATIONS

Azure AI Engineer Associate ↗

July 2025

Google Cybersecurity Professional Certificate ↗

December 2024

PROJECTS

Optical Character Recognition Model ↗

March 2025

Tools: Keras in R | Dataset: MNIST

- Built a hybrid **CNN + LSTM** model for recognizing handwritten digits.
- Reshaped image data for sequence learning with minimal loss.
- Tuned hyperparameters to achieve 98%+ accuracy.

Woxhunt

February 2025

Tools: Next.js, TypeScript, PostgreSQL, Drizzle ORM, OAuth, Hashing Algorithms

- Built an interactive treasure hunt website with dynamic question flow and real-time progress tracking.
- Implemented secure user authentication using OAuth and designed hash-based validation for answer submissions.
- Utilized PostgreSQL with Drizzle ORM for scalable and maintainable data management.
- Hosted for over 80 participants; ensured stability and responsiveness throughout the event.

CLI-RPG (CLI game built in Rust) ↗

June 2024

Tools: Rust, Ratatui (TUI Library), Crossterm (Terminal Control), Clap (Argument Parsing)

- Built interactive RPG in Rust with multi-threading and optimized data structures for seamless gameplay performance.
- Spearheaded integration of multiple games including Minesweeper and typing test with background music implementation.
- Achieved 100+ downloads with active player base across campus, demonstrating broad student appeal