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

- Architected and deployed automated email dispatch system using **Next.js, TypeScript, and Amazon SES**, increasing delivery reliability by 50% and processing 2,000 emails per week.
- Designed a version-controlled **content creation and review pipeline** with multi-stage approval for editorial workflows.
- Implemented AWS Lambda functions to handle **inbound email routing** via **SES**, with support for **multi-sender authentication** and response parsing.

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.
- Facilitated weekly technical reading groups covering **OWASP Top 10**, **database internals**, and **Git-based CI/CD workflows** for 40+ weekly participants.
- **Managed technical events** with **over 700 participants** including workshops and programming competitions.

IFB Industries Ltd.
Data Analytics Intern

June 2024 – July 2024
Verna, Goa

- Analyzed manufacturing datasets using **Python (Pandas, NumPy), SQL,** and **Excel,** processing 100,000+ records to identify production bottlenecks and efficiency improvements
- Built **time series forecasting models** using seasonal decomposition and ARIMA to optimize product marketing strategies.
- Automated geographic coordinate validation using **Google Maps API**, reducing manual quality assurance time by 70%.

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 ↗
Tools: Keras in R | Dataset: MNIST

March 2025

- Built a hybrid **CNN + LSTM** model for recognizing handwritten digits.
- Reshaped **60,000 training images** for sequence-based learning with minimal data loss.
- Tuned hyperparameters to achieve 98%+ accuracy.

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

February 2025

- Developed 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.
- Used PostgreSQL + Drizzle ORM for scalable data operations; achieved 100% uptime during the 24-hour event
- Hosted for over 80 participants; ensured stability and responsiveness throughout the event.

CLI-RPG (CLI game built in Rust) ↗
Tools: Rust, Ratatui (TUI Library), Crossterm (Terminal Control), Clap (Argument Parsing)

June 2024

- Created an 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