Rishit Ranjan

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EDUCATION

Vellore Institute of Technology (VIT)   **[July 2022 – May 2026 (Expected)]**
Bachelor of Technology (B. Tech) Computer Science and Engineering   Current CGPA: 8.13

EXPERIENCE

Full Stack Web Developer Intern at Null Class | MERN stack   **[June 2024 - Oct 2024]**
- Engineered scalable solutions supporting 10,000+ active users.
- Implemented real-time notifications and a secure authentication system to improve user engagement by 15%.
- Developed multilingual support and better notifications, boosting user engagement and retention by 20%.

Web Developer Intern at Internship Studio | HTML, CSS and Javascript   **[Jun 2023 – July 2023]**
- Engineered an interactive E- commerce platform with over 3 product categories and over 5 clothing lines.
- Developed cart, order management, and search features, improving shopping experience and conversions by 12%.
- Reduced page load time by 25%, improving mobile user retention.

PROJECTS

EmotiTunes: Emotion-based Music Player | Python, Gemini API, MIR & AER ML
- Leveraged Google Gemini API's multimodal model to achieve real-time emotion detection from images and audio with up to 90% accuracy, enabling dynamic mood recognition.
- Automated personalized playlist generation by curating 10-song lists per detected emotion, incorporating diverse genres to enhance user engagement and satisfaction.
- Enforced robust error handling and offline detection, improving application reliability and user experience for over 1000+ simulated usage scenarios.

AlgoViz. (Visualizing the Algorithm) | HTML, CSS, JavaScript, Django
- Collaborated in a team of 5 as a Front-end Developer for an interactive GUI tool for visualizing over 5 algorithms and more than 3 data structures supporting enhanced algorithmic learning.
- Developed GUI elements that support learning and increase algorithmic understanding.

ConnectSphere | React + JavaScript, Firebase, Chatbot
- Planned and built a social networking platform supporting 100+ posts sharing and images uploads within communities.
- Executed real-time chat, follow, and private group features (up to 5-7 members) to encourage user interaction and media sharing.
- Integrated admin features and AI-powered moderation, streamlining moderation work-flow and reducing content violations by an estimation of 30%.

SKILLS

- **Programming Languages:** Java, Python
- **Web**: HTML, CSS and JavaScript
- **Framework & Libraries:** React, Node.js, Django, Flask API
- **Databases**: MongoDB, Firebase, MySQL Workbench
- **Tools & Technologies:** Git and GitHub, Google Gemini API
- **Concepts:** DSA, Agile Development, SDLC, CI/CD Concepts

CERTIFICATIONS

- Java Development on Oracle Cloud Certification (Oracle, April 2025)
- Salesforce Developer Certification (Salesforce, April 2025)
- Cloud Computing (NPTEL, Apr 2024)
- Software Engineer Intern (HackerRank, 2024)
- Bits and Bytes of Computer Networking (Coursera, Dec 2023)

AWARDS, ACHIEVEMENTS AND OTHER ENDEAVORS

- Graded 10th in Graph Programming Camp (AlgoUniversity, 2025)
- Finalist- Hack-a-thon (Odoo, 2025)
- Finalist- Code Gladiators (TechGig, 2024)
- Student Ambassador- Alpha (Microsoft, 2023)
- Ranked 8/40 in Code Garuda coding competition on HackerRank (Microsoft Student Technical Club, 2023, VIT)
- **3 star in C++, 4 star in Python, 4-star in Java** (HackerRank)