Rajat Agrawal

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EDUCATION

Vellore Institute of Technology   Vellore, India
Integrated M.Tech – Software Engineering — CGPA: 9.77/10.00   *Sep 2022 – Jun 2027*

WORK EXPERIENCE

Software Development Intern   May 2025 – Jun 2025
Digital Fortress Pvt. Ltd.   *Amaravati, Andhra Pradesh*
- Built and optimized Flutter-based mobile features for **Mukham** and **em Metrics**, improving user experience
- Implemented primary features like **AI-based attendance**, purchase order workflows, and handled **30+ real-time API endpoints**; contributed to client-to-COTS product transition

Software Development Trainee   Jan 2022 – Feb 2022
Schneider Electric Pvt. Ltd.   *New Delhi, India*
- Gained exposure to **Greater India & Odyssey** enterprise projects during critical delivery phases; participated in **15+ daily stand-ups** and assisted in requirement analysis and documentation review across full SDLC workflows
- Identified root causes of **two minor bugs** during training exercises; selected among **six trainees** to present findings to senior management, recognized for rapid learning and ownership in a high-pressure environment.

Content Design Intern   Apr 2021 – Dec 2021
MySAP Skills   *Bengaluru, Karnataka*
- Edited and structured **70+ hours** of SAP module lectures (**SD, MM, MDG, ABAP on HANA**) using OpenShot, supporting SAP training delivery across **three learning platforms**

PROJECTS

CDSAL-based Plant Disease Classification | *Python, Transformers, Grad-CAM, XAI*
- Designed deep learning pipeline using **DenseNet121** and **EfficientNet-B0** for multi-crop disease classification
- Introduced **Cross Disease Similarity Awareness Learning (CDSAL)** to reduce misclassification, achieving **99.77% accuracy** on unseen samples.

UrEvent | *React, Node.js, MongoDB, Express, NLP, Applied AI*
- Developed a scalable **4-level role-based** event management system with an AI chatbot trained on **2,400+ events' data** for personalized recommendations; implemented JWT-based authentication and REST APIs.

Secure IoT Car Parking System | *Embedded Systems, IoT, Lightweight Cryptography, MongoDB*
- Designed IoT-enabled smart parking with **SIMON/SPECK ciphers**, encrypted payloads, and token-based authentication for vehicle security in an office/building

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, SQL, JavaScript, Dart, HTML/CSS
Frameworks & Libraries: React, Node.js, Express, Flask, Flutter
Developer Tools: GitHub, Docker, Postman, Google Cloud Console, Figma

LEADERSHIP & ACHIEVEMENTS

- **College Merit Award** recipient for **three consecutive years** as programme rank holder; served as Programme Representative
- Presented research at **ICMAT'25, Sastra University**; filed patents for Secure Resilient Watermarking and Smart Pest Monitoring System
- Member Secretary, Student Council: Liaised between DSW and students, coordinating **150+ clubs** and **20+ university-level events**; developed a **MERN-based venue booking system** adopted to streamline club scheduling.
- Student Organizer (Finance), graVITas'25: Managed finances for a **Rs.1.6 Cr** university fest with **30,000+ footfall**, optimizing high-value events and delivering a **Rs.20L+ profit**
- Chairperson, Bulls and Bears Club: Led a **2,000+ member** finance club, delivering financial literacy initiatives, coordinating **47 events over 2 years**, and securing the **Best Technical Club** award