

Rajat Kumar Singh

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EDUCATION

2023 – 2027	B.Tech. CSE, SRM University, AP (100% Merit Scholarship)	CGPA: 9.28
2021 – 2023	Higher Secondary (CBSE), VidyaGyan School	88.4%
2019 – 2021	Secondary (CBSE), VidyaGyan School	94.5%

PROFESSIONAL EXPERIENCE

GeniScience Education Pvt Ltd — Full-Stack Developer Intern *June 2025 – Aug 2025*

- Spearheaded the development of a scalable e-commerce solution for 50+ STEM education products using PHP and MySQL, optimizing the entire lifecycle from user registration to order processing.
- Designed a mobile-responsive UI and refined database queries, reducing page load latency by 35% and guaranteeing 100% cross-browser compatibility across devices.
- Established a secure admin dashboard that automated inventory tracking, cutting manual data entry time by 40%, while implementing B-Crypt password hashing to reinforce data security.

TECHNICAL SKILLS

Languages:	Python, JavaScript (ES6+), C/C++, Java, PHP, SQL, HTML5/CSS3
AI ML:	PyTorch, Scikit-learn, LangChain, TensorFlow, RAG
Frameworks:	React.js, Node.js, FastAPI, Express.js, Tailwind CSS, Bootstrap
Databases:	MongoDB, MySQL, PostgreSQL
Tools:	Git, GitHub, Docker, Firebase, Linux/Unix
Engineering:	Data Structures & Algorithms, REST APIs, Software Design Principles

TECHNICAL PROJECTS

Calmify: AI-Powered Mental Health Platform (React, Node.js, PostgreSQL) (GitHub)

- Engineered a mental wellness ecosystem with an algorithmic triage chatbot that assesses user needs with 92% accuracy using PHQ-9 tools, directing users to appropriate care 3x faster.
- Deployed a secure support system featuring AES-256 encrypted chat and a multilingual resource library, reducing crisis resource access time by 40%.
- Structured the full-stack architecture using a React front-end and Node.js back-end, utilizing MongoDB to handle 500+ mock user profiles with strict role-based access control.

NEXi: University Voice AI Assistant (Python, LiveKit, RAG) (GitHub)

- Devised an intelligent voice assistant for university students, delivering answers to 1,000+ potential queries about policies and events with a 3 second response latency.
- Harnessed a dual RAG system that indexes 200+ pages of university documents, using a smart query router to improve context retrieval precision by 35%.
- Assembled a real-time voice pipeline using LiveKit and Deepgram, achieving a sub-second voice-to-text latency while orchestrating the Gemini LLM.

RunDown: AI Task Manager (FastAPI, Azure OpenAI, Microsoft Graph API) (GitHub)

- Formulated an AI task manager to auto-extract events from Outlook emails with 98% parsing accuracy, categorizing them into 10+ custom user-defined labels.
- Secured the application with OAuth 2.0 and integrated seamless calendar synchronization, cutting manual scheduling overhead by 5 hours per week.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Certified Generative AI Professional** — Oracle *Oct 2025*
- **Oracle Cloud Database Services 2025 Certified Professional** — Oracle *Oct 2025*
- **Red Hat System Administration II (RH134)** — Red Hat *Oct 2025*
- **Red Hat System Administration I (RH124)** — Red Hat *Sep 2025*

ACHIEVEMENTS

- **Winner** - HackSecure International Hackathon: Outperformed 280+ teams from 14 countries by inventing *Privy*, an AI framework that automates GDPR compliance and translates complex privacy policies into actionable insights.
- **Winner** - Microsoft Student Community Hackathon: Created *Medical Vault*, a secure app to store, organize, and share medical records.
- **Winner** - Secure X Hackathon (International): Constructed *SecureOps*, a browser extension for real-time cyber threat response and mitigation, in under 24 hours.
- **Winner** - 9Hacks Hackathon: Prototyped an IoT-based lab entry/exit management system with ESP32 and RFID sensors, while mentoring junior members.