

Ayush Ranjan

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EDUCATION

B.M.S College of Engineering, Bengaluru, Karnataka

Expected Graduation: June 2026

B.E. in Computer Science and Engineering (IoT, Cyber Security with Blockchain Technology) | CGPA: 9.04 | Semester: 7th

St. Michael's High School, Patna

12th Grade: 94.6% | 10th Grade: 96%

TECHNICAL SKILLS

Programming Languages: C, C++, JavaScript

Frontend: React.js, HTML, CSS

Backend: Node.js, Express

Databases: PostgreSQL, MongoDB

Tools & Platforms: Docker, CI/CD, Git

Blockchain: Solidity, Truffle Suite, Web3.js, Ethereum, IPFS, Smart Contracts

Cybersecurity & Networking: Encryption, Vulnerability Assessment, Penetration Testing, Threat Detection, Incident Response, Risk Assessment, Network Security, Secure Application Development, Cloud Security, Data Protection

Security Protocols: SSL/TLS, HTTPS, VPN, Zero Trust Architecture

Cryptography: AES, RSA, ECC, ECIES, SHA-256, Public Key Infrastructure (PKI)

Security Tools: Wireshark, Metasploit, Burp Suite, Nessus, Nmap, OWASP

Fundamentals: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Computer Networks

PROJECTS

Paste Saver App | Personal Project | [Link](#)

April 2025

Tech Stack: React, Vite, Tailwind CSS, PostCSS, ESLint, Node.js

- Engineered a responsive frontend application using React and Vite with a component-based architecture.
- Built a highly customized UI with Tailwind CSS and integrated ESLint and PostCSS for code quality and optimization.

Fraud Reporting Website | Personal Project | [Link](#)

November 2023

Tech Stack: HTML, CSS, JavaScript, Node.js, RESTful APIs, UI/UX Design, User Authentication

- Developed a full-stack fraud reporting web application named "Fraud Guardian".
- Built secure backend authentication and RESTful APIs for anonymous fraud reporting.

Securing DICOM Images | Cyber Security Project

January 2025

Tech Stack: Python, Flask, pydicom, cryptography (ECIES-KEM), Matplotlib, Pillow, hashlib

- Built a secure web app for encrypted DICOM image transfer using ECIES encryption.
- Integrated SHA256 hashing for verifying data integrity during encryption and decryption.

Freight Tracking System | Web3 Project | [Link](#)

March 2025

Tech Stack: JavaScript, Solidity, Truffle Suite, Web3.js, Ethereum, IPFS

- Designed a decentralized freight tracking DApp using Solidity smart contracts on Ethereum.
- Enabled vehicle registration, trip scheduling, and secure escrow payments for forward and reverse logistics.

CERTIFICATIONS & ACHIEVEMENTS

- Completed Google Cloud Career Launchpad — Cloud Engineer Track
- Completed UiPath Academy — Automation Developer Associate Training
- Secured 24K Rank in JEE Advanced 2022