

Pankh Bansal

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Profile Summary

Tech-savvy engineering student with hands-on experience in full-stack development, secure systems, and data analytics. Proficient in **Java**, **React**, **SQL**, and MongoDB, with a strong academic record and certifications in Java. Built real-world projects like EncryptoSafe and Investify, and contributed to hackathons and open-source. Quick learner with a passion for building scalable, user-centric solutions.

Technical Skills

Java, Python, JavaScript, HTML, CSS, React.js, Express, Flutter, **SQL** (Joins, CTEs, Window Functions), Excel (Pivot, VLOOKUP, What-If Analysis), MongoDB, Tableau, **Figma**, Excel, Firebase, Salesforce.

Projects

EncryptoSafe - Secure File Vault | *Java, Swing, AES Encryption, BCrypt, Maven* June-2025

- Engineered a full-stack Java application for secure file storage, enabling AES-256 encryption and BCrypt-based authentication
- Designed both CLI and GUI (Swing) interfaces, enhancing cross-platform usability across **50+** user scenarios.
- Modularized with Maven and integrated industry-grade libraries (BouncyCastle, jBCrypt) for scalable, secure architecture
- Supported encryption/decryption of files up to **100MB**, validating with 50+ test cases across multiple user vaults.

Investify - Full-Stack Virtual Stock Trading Platform | *React.js, MongoDB, MySQL, WebSocket* February-2025

- Developed a virtual trading platform with real-time WebSocket-based order matching, handling **100+** simulated trades.
- Built secure OTP-auth login, and integrated dual-database support (MongoDB for user data, MySQL for history).
- Designed a responsive React.js dashboard with dynamic charts, portfolio tracking, and transaction logs.
- Created a risk-free trading sandbox (ISE) for multi-user simulation, supporting **10+** concurrent sessions.
- Designed analytics module to track user behavior, trading trends, and P&L

Certifications & Achievements

Java Foundation Associate, **Oracle** - July 2025 (83%)
Full-Stack **MERN** with MongoDB Certified – May 2025 (82%)
DELF **A2 French** Certification (89%)
Gold Medalist for Academic Excellence for 7 years (DPS VK)
HTML, CSS & JavaScript (Coursera) - Dec 2023

Education

Vellore Institute of Technology, Bhopal July 2022- July 2026
CGPA:8.81

Delhi Public School Vasant Kunj, New Delhi
Class XII – 96.6% April 2020- June 2021
Class X – 98.2% April 2018- June 2019

Hackathons & Initiatives

FOSS-25: Contributed with Investify v2; improved trading simulation and database management.
SIH-24: Developed a basic Federated Learning model for internal round, focused on privacy-preserving medical data sharing.

Positions of Responsibility

Core Member – PR & Outreach, Vitronix (**IoT & Robotics Club**); Led outreach for 5+ tech events and workshops, boosting student participation by 40%. Coordinated with sponsors and mentors for hackathons, ensuring smooth collaboration and execution.
Core Member – Content, Null Chapter (**Math + Cybersecurity Club**): Created content focused on **probability**, logical reasoning, and analytics. Co-authored a blog series on beginner-friendly **cryptographic concepts** and cybersecurity puzzles. Helped curate CTF (Capture The Flag) challenges for internal tech fest, with 100+ participants.