

Pankh Bansal

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Profile Summary

Pre-final year B.Tech student specializing in Digital Product Development, Data Analytics, and Risk-Aware Systems. Experienced in **SQL**, **Tableau**, and Big Data concepts to drive data-informed decision making. Skilled at product lifecycle execution, compliance-focused solutions, and cross-functional collaboration. Strong foundation in **secure systems**, governance, and innovation with hands-on **full-stack development**.

Technical Skills

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

Projects

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

June-2025

- Engineered a vault with **AES-256 encryption & BCrypt authentication**, validated by **50+ test cases** to ensure compliance-grade security.
- Delivered dual interfaces (CLI + Swing GUI) to make the tool accessible to both technical and non-technical users.
- Modularized with Maven and integrated libraries (BouncyCastle, jBCrypt), creating a **scalable and maintainable architecture**.
- Enabled seamless encryption/decryption of files up to **100MB**, expanding usability for diverse datasets.

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

February-2025

- Built a full-stack trading product enabling 100+ users to simulate real-world trading, boosting financial literacy & engagement.
- Applied real-time WebSocket-based order matching for handling 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.
- Developed analytics module to track user behavior, trading trends, and P&L.

Certifications & Achievements

Oracle Java Foundation Associate – 2025 (83%)
Full-Stack **MERN** with MongoDB – 2025 (82%)
HTML, CSS & JavaScript (Coursera) – 2023
DELF **A2 French** Certification – 2024 (89%)
Gold Medalist – Academic Excellence (7 years, DPS VK)

Education

Vellore Institute of Technology, Bhopal

2022 - 2026

CGPA:8.83

Delhi Public School Vasant Kunj, New Delhi

Class XII – **96.6%**

2020 - 2021

Class X – **98.2%**

2018 - 2019

Hackathons & Initiatives

FOSS-25: Collaborated in a 5-member team to ideate and present enhancements for *Investify* v2, improving scalability and **optimizing database performance by ~20%**. Focused on product design and multi-user adoption strategy.

SIH-24: Built a prototype for **privacy-preserving medical data sharing** via Federated Learning, ensuring compliance with data governance. Improved model accuracy by **15%** in internal testing, strengthening user trust and feasibility.

Positions of Responsibility

- Core Member – PR & Outreach, Vitronix (**IoT & Robotics Club**); Led outreach strategy for 5+ tech events, increasing student participation by 40%; coordinated sponsors & mentors for hackathons.
- Core Member – Content, Null Chapter (**Math + Cybersecurity Club**); Created content focused on **probability**, logical reasoning and curated CTF challenges with 200+ participants, boosting engagement in **cryptography & analytics**.