

# Ansh Bahl

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## WORK EXPERIENCE

### New Zealand Cricket Association

JUL -AUG 2025

Full-Stack Engineering Intern – Analytics & Data Infrastructure

Remote | New Zealand / India

- Designed and deployed a scalable data platform for real-time player engagement tracking
- Built cloud-based architecture using Angular, Firebase, and Node.js with offline synchronization
- Developed APIs and optimized data workflows to improve reporting speed and operational efficiency
- Applied user-centric design principles to enhance usability and system performance

## PROJECTS

### AI-Powered Stock Intelligence Platform

**Tech Stack:** React, Node.js / FastAPI, PostgreSQL/MongoDB, REST APIs

- Built an AI-driven platform analyzing real-time stock data and financial news to generate actionable buy/sell insights
- Designed modular backend services for data ingestion, sentiment analysis, and prediction, enabling scalable processing
- Optimized API performance using caching and asynchronous processing, reducing response latency
- Developed an interactive dashboard with real-time updates, portfolio tracking, and alert systems

### Ganit.AI – Intelligent Math Solver

**Tech Stack:** Python, JavaScript

- Developed an AI-based math solver generating step-by-step solutions for complex mathematical problems
- Designed logic-driven computation workflows to handle diverse problem types across multiple domains
- Focused on accuracy and explainability to enhance user understanding

### Cross-Platform Secure System Call Interface

**Tech Stack:** Python (tkinter, subprocess, OS)

- Engineered a secure GUI-based system call interface with Role-Based Access Control (RBAC) to restrict unsafe operations
- Designed controlled execution layers to mitigate risks associated with direct shell access
- Improved system safety by enforcing permission-based command execution

## TECHNICAL SKILLS

**Languages:** C, C++, Python, Java, JavaScript, SQL

**Frameworks/Tools:** React.js, Node.js, Express.js, Angular, Firebase, AWS

**Databases:** MongoDB, MySQL, PostgreSQL

**Core Concepts:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks

## ACHIEVEMENTS

- Solved 300+ DSA problems across coding platforms
- Awarded ₹2.40 Lakhs Ideation Grant (Government of Rajasthan)
- 1st Runner-up, Code Off Duty Web Hackathon
- Winner, Zerodha Varsity Finance Quiz
- NPTEL Certification in Cloud Computing
- Delivered 3 Prompt Engineering workshops impacting 250+ students across multiple disciplines
- Core Member in multiple College Organizations, leading 50+ large-scale events featuring top industry leaders.

## EDUCATION

Lovely Professional University

B.Tech - Computer Science Engineering

CGPA - 8.34

2023 - Present

Jayshree Periwal High School

Senior Secondary (XII), CBSE Board

2021 - 2023

St. Xavier's School

Secondary (X), CBSE Board

2011 - 2021