

# Ayush Pandey

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## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology in Computer Science and Engineering – CGPA: 8.85/10.0

Bhopal, India

Sep 2022 – Jul 2026

### Guru Tegh Bahadur Public School

12<sup>th</sup> Standard (CBSE) – 89.2%

Durgapur, West Bengal

2021

### Guru Tegh Bahadur Public School

10<sup>th</sup> Standard (CBSE) – 86.2%

Durgapur, West Bengal

2019

## EXPERIENCE

### Open Source Software Developer

Remote

Hacktoberfest 2025 – GSSoC

Jul 2025 – Oct 2025

- Achieved a top 2.5% ranking among 10,000+ contributors by delivering fixes across 5+ open-source projects and resolving 20+ React-related issues involving state management and API integration.
- Optimized frontend performance through component restructuring and lazy loading, resulting in noticeable improvements in load time and interface responsiveness.
- Coordinated with global maintainers to review, test, and document pull requests, reducing review turnaround by 20% and improving merge reliability.

## TECHNICAL PROJECTS

### TheodoraQ – AI-Powered Quiz Platform

Oct 2025 – Jan 2026

React.js, Vite, Material-UI, Node.js, Express.js, MongoDB, REST APIs, OAuth 2.0

- Architected a full-stack MERN-based assessment platform that transforms natural-language prompts into AI-generated quizzes, supporting 100+ concurrent users.
- Integrated JWT-based authentication, role-based access control, and real-time exam monitoring with tab-switch detection to uphold assessment integrity.
- Designed an analytics module with seven distinct visualizations to surface performance trends and enable data-driven instructional decisions.
- Enabled student messaging and a Learning Hub with AI-assisted search, improving collaboration and access to contextual learning resources.

### E-Tracking – Personal Finance Management System

Feb 2025 – Apr 2025

React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT

- Designed a secure expense management system with JWT-based authentication and RESTful APIs to support multi-user financial tracking.
- Created interactive dashboards for real-time spending analysis, budget monitoring, and category-based insights.
- Improved database efficiency through index optimization, enabling a 30% increase in concurrent usage without performance degradation.

### AI Image Generator – Text-to-Image Web Application

Sep 2024 – Oct 2024

JavaScript, Node.js, Express.js, REST APIs, HTML5, CSS3

- Integrated third-party AI services to generate images from text prompts using asynchronous request handling.
- Secured backend endpoints with API key validation, rate limiting, and centralized error handling.
- Delivered a responsive, cross-browser-compatible interface using JavaScript and CSS3.

## TECHNICAL SKILLS

- Languages:** Java, JavaScript
- Full Stack:** HTML, CSS, Tailwind, React.js, Node.js, Express.js, REST APIs
- Databases:** MySQL, MongoDB
- Tools & Platforms:** Git, GitHub, Postman, MongoDB Atlas, VS Code

## CERTIFICATIONS & ACHIEVEMENTS

- MongoDB Associate Developer Certified:** Proficient in MongoDB data modeling and querying.
- SmartBridge MERN Stack Certification:** Completed comprehensive training in MERN full-stack development.
- Smart India Hackathon (SIH) 2024 Finalist:** Constructed an AI-based frame interpolation model for ISRO satellite imagery processing using machine learning algorithms.
- National Service Scheme (NSS) B Certificate:** Completed 250+ hours of certified community service and successfully qualified the B Certificate examination.
- Executive Head & Design Lead (LINPACK Club):** Led technical operations and design initiatives for the community.