Ayush Pandey

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EDUCATION

Vellore Institute of Technology *Bhopal, India*
Bachelor of Technology in Computer Science and Engineering — CGPA: 8.85/10.0 *Sep 2022 – Jul 2026*

Guru Tegh Bahadur Public School *Durgapur, West Bengal*
12th Standard (CBSE) — 89.2% *2021*

Guru Tegh Bahadur Public School *Durgapur, West Bengal*
10th Standard (CBSE) — 86.2% *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 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.
- 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 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.