

# AYUSH GUPTA

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## PROFESSIONAL SUMMARY

A Third-Year CSE student at **BIT Mesra**, pursuing education in **Software Engineering** with strong expertise in **Problem Solving, Algorithm Design, Full-Stack Web Development..** Experienced in **building and deploying** software architecture using technologies like **Next.js, Tailwind CSS, PostgreSQL, and Docker** ensuring Security , Scalability and Maintainability in the Application.

## EDUCATION

### Birla Institute of Technology, Mesra

*Bachelor of Technology (Computer Science and Engineering) CGPA - 8.71*

**Expected Graduation : May 2027**

Ranchi, Jharkhand

### Kendriya Vidyalaya Hinoo

**2021 – 2022**

Class XII - Percentage : 93.6% 1st place in school

Ranchi, Jharkhand

### Kendriya Vidyalaya No. 1

**2019 – 2020**

Class X - Percentage : 92.8% 2nd place in school

Bokaro steel city, Jharkhand

## SKILLS

- **Programming Languages** : Java
- **Full-Stack Development** : HTML, CSS, Javascript, Express.js, Node.js, Tailwind CSS, React.js, Next.js, Docker, PostgreSQL, MongoDB, WebSockets.
- **Tools & Competencies** : VS Code, IntelliJ IDEA, Git, GitHub, Docker.
- **Relevant Coursework** : Object-Oriented Programming(OOP), Data Structures & Algorithm(DSA), Database Management System (DBMS) , Operating System (OS) , Computer Networks(CN)
- **Soft Skills** : Initiative, Communication, Teamwork , Leadership.

## ACHIEVEMENTS

- Solved **650+** Questions in Leetcode.
- Solved over **800+** coding problems overall across platforms.
- Secured **2nd place in IEEE Megaproject 2024** among 50+ competing teams for an innovative project showcasing software development , leadership and teamwork.
- Got selected for **Smart India hackathon (2024)** in college, Selected for State round.

## PROJECTS

**Cash-Canvas WebApp** | *Next.js, React.js, Clerk, Tailwind CSS, PostgreSQL, Supabase, Gemini API, Inngest*

[GitHub](#) | [Live Link](#)

- Engineered a **Full-Stack finance platform** to **streamline expense tracking**, improving **tracking speed by 40%**, leveraging **Next.js** and **PostgreSQL** with **server-side rendering (SSR)** for faster load times and **SEO**.
- Integrated **Clerk-based authentication**, reducing user onboarding time by **60%** and ensuring secure session handling with **zero login failures** during testing and debugging.
- Designed and implemented **multi-account management with monthly budget features, automated email alerts** using **Inngest Microservice** enabling users to **stay within budget limits**.
- Designed interactive **Recharts-based dashboards** to **visualize spending patterns** with Smart Categorization of expenses, resulting in **25%** faster insights generation and **95%** higher user engagement.
- Deployed **Gemini API** for automated receipt parsing (**92% OCR accuracy**) and monthly expenditure email reports, boosting user retention by **20%**.

**Paytm WebApp** | *Next.js, Tailwind CSS, Next-Auth, Prisma, PostgreSQL, Express.js*

[GitHub](#) | [Live Link](#)

- Designed a **Full-Stack Paytm-like wallet app** using **Next.js** and **PostgreSQL** to enable **fast peer-to-peer fund transfers**, increased performance optimization by **40%** and enhanced **user experience** with **clean, responsive UI workflows**.
- Used Optimized **Prisma Transaction** handling, enabling secure money transfer with **0% data loss** in 500+ simulated transactions, and **improving API response time by 30%**.
- Developed a **Paytm-like wallet system** enabling fast peer-to-peer fund transfers, leveraging a **secure custom API WebHook** built with **Express.js** for real-time and reliable communication with a custom dummy bank server.
- Implemented a **Secure Authentication flow using Next-Auth** and Gmail OTP verification (via **Nodemailer**), with session persistence through **JWT and HTTP-only Cookies** ensuring **99.9%** user data security.

## POSITION OF RESPONSIBILITY

**Member - IEEE Student's Chapter, BIT Mesra**

**Jan 2025 – Present**

- Led a team of 5 members in a hands-on **Web Development workshop** for **250+ students**, teaching **HTML, CSS, and React fundamentals**, and authored the recruitment contest attempted by **350+ participants**.