

# Raihan Ahmad

Full-Stack Developer

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## Professional Summary

Software engineering student with hands-on experience in full-stack web development using the MERN stack (MongoDB, Express.js, React, Node.js). Strong understanding of system design fundamentals, RESTful API development, and iterative testing practices, with exposure to backend development using Spring Boot and Docker-based workflows.

## Technical Skills

- **Programming Languages:** Python, JavaScript, Java, SQL, C
- **Backend:** FastAPI, Node.js, Express.js
- **Frontend:** React.js, Tailwind CSS, Bootstrap
- **Databases:** PostgreSQL, MySQL, MongoDB, Firebase Firestore
- **DevOps & System Design:** Docker, Git/GitHub, AWS EC2, REST APIs, OAuth2/JWT, Postman

## Experience

### Full-Stack Developer Intern

Mar 2025 - Apr 2025

*Zidio Development*

- Led front-end development of **FinTrak**, building intuitive React.js and Material UI components for a smoother user experience.
- Assisted in developing secure REST APIs using Spring Boot and MySQL, implementing authentication with JWT and OAuth2.
- Integrated real-time analytics dashboards using Chart.js to enhance product insights and usability.

## Projects

### AI-Powered Student Stress Detector

Nov 2025 - Dec 2025

- Built a full-stack stress analysis system using React and FastAPI, implementing a Mamdani Fuzzy Inference Model with 21 rules.
- Added a client-side inference fallback, JSON report export, and history tracking for seamless offline use.
- Integrated real-time visualizations with Chart.js, including stress gauges and membership degree charts.

### UniBazaar - Campus Marketplace

Jan 2025 - Feb 2025

- Developed a full-stack application for listing and managing campus marketplace items using React, Node.js, and MongoDB.
- Implemented Firebase Authentication, Cloudinary media handling, and deployed via Netlify and Render.

### Nile - E-commerce Website

Apr 2024 - May 2024

- Built a responsive shopping interface with HTML, CSS, and JavaScript, including product filters and cart features.
- Optimized usability and performance through mobile-first design and efficient DOM handling.

## Education

### B.Tech in Computer Science and Engineering

2023 - 2027

Birla Institute of Technology, Mesra CGPA: 8.43

### Senior Secondary (Class XII), CBSE

2022

Holy Cross School, Hazaribagh 91%

### Matriculation (Class X), CBSE

2020

Holy Cross School, Hazaribagh 95.5%

## Leadership & Activities

### Semifinalist, Trikaya Hack-to-Hire Hackathon

Nov 2025

Recognized for developing **PodcastMini**, an AI-powered podcast summarization tool.

### Google Student Ambassador

Aug 2025 - Dec 2025

Conducted AI workshops and engaged students in innovation initiatives.

### General Secretary, Aakshar Literary Society

Jan 2025 - Nov 2025

Led major campus events and contributed to growing participation and outreach.

### School Captain, Holy Cross School

2020 - 2022

Directed the student council and coordinated school-wide events.