

# Aarush Taluja

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## EDUCATION

### Vellore Institute of Technology

B.Tech in Computer Science Engineering - 8.23 CGPA

Bhopal, MP

2022 – 2026

## TECHNICAL SKILLS

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

**Frontend:** React.js, Next.js (App Router), HTML5, CSS3, Tailwind CSS

**Backend:** Node.js, REST APIs, WebSockets

**Databases & Data:** MongoDB, SQL, Convex

**Infrastructure & Tools:** Git, Power Automate, Microsoft Endpoint Configuration Manager (MECM), WSUS

## EXPERIENCE

### Hitachi

IT Intern

Nov 2024 – Jan 2025

Delhi

- Spearheaded patching, compliance validation, and software deployments across 500+ enterprise endpoints using MECM and WSUS, improving deployment success rates and minimizing unplanned downtime.
- Engineered automation workflows utilizing Power Automate to streamline patching and reporting, reducing repetitive manual tasks by 40% and accelerating incident resolution turnaround time.
- Executed system audits, patch verification, and compliance checks across enterprise devices, contributing to a 25% reduction in endpoint-related security and reliability issues.
- Monitored endpoint health, deployment failures, and compliance metrics, analyzing data from over 500 endpoints and gaining foundational expertise in enterprise IT infrastructure and operational reliability.

## PROJECTS

### Splitzy – Expense Splitting Application

Jun 2025 – Present

Next.js, Convex, Node.js, Clerk, Tailwind CSS, Recharts, Inngest, Google Gemini

- Pioneered the development of a full-stack expense management platform, supporting equal, percentage-based, and exact-amount splits for group and individual expenses, handling up to 1,000 transactions per day during testing.
- Implemented real-time data synchronization using Convex, achieving an average update latency of sub-200ms.
- Integrated event-driven background workflows with Inngest to automate payment reminders and notifications, elevating settlement completion rates by 35%.
- Designed interactive financial dashboards using Recharts to visualize spending patterns, achieving 99% data accuracy and enhancing user expense transparency.
- Secured the platform by integrating Clerk for robust authentication and user management, resulting in 0 unauthorized access attempts detected during internal security audits.

### Real-Time Collaborative Code Editor

Oct 2024 – Nov 2024

Next.js, Node.js, MongoDB, WebSockets

- Developed a high-performance, real-time code editor supporting 25+ concurrent users per session with integrated chat and synchronized editing.
- Leveraged WebSocket-based communication to propagate code changes, maintaining an average synchronization delay below 150ms.
- Established session-based collaboration logic to efficiently manage simultaneous document editing by multiple users, supporting real-time collaboration for up to 25 users per session.
- Incorporated an online code execution engine for C++, Python, and JavaScript, enabling in-session collaborative testing and debugging with an average execution time of under 3 seconds.

## POSITIONS OF RESPONSIBILITY

### MUN Club

Technical Co-Lead

- Led development and maintenance of internal websites and digital tools supporting club events and operations.

## CERTIFICATES

- The Bits and Bytes of Computer Networking - Coursera
- Data Structures and Algorithms - Industry Training
- Cloud Computing - NPTEL
- Python Essentials - VITYarthi