

# SHRUTIK MESHRAM

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## EDUCATION

### National Institute of Technology, Karnataka

B.Tech in Mechanical Engineering

Dec 2021 – May 2025

CGPA: 7.81/10

## OPEN SOURCE CONTRIBUTIONS

### Bug Fix: Convex Authentication for Next.js on Bun | *Next.js, Bun, HTTP*

Jan 2026 – Present

- Fixed a **production bug** in Convex's Next.js auth hanging indefinitely in Bun runtime.
- Diagnosed root causes: read-only **Headers + Content-Length** header forwarding issues.
- Submitted **PR 253** with selective header fix, passed AI review & automated checks.

## PROJECTS

### Full-Stack Blog Platform | *Next.js 16, Convex, TypeScript, Tailwind CSS*

Jan 2026 – Present

- Designed a **serverless backend** with **Convex** queries and mutations, leveraging **WebSocket** subscriptions for instant comment propagation and a **heartbeat-based** presence API to display **50+** live viewers.
- Debugged and patched a **runtime incompatibility** between **Bun** and **@convex-dev/better-auth** where immutable Next.js headers caused **100%** POST hangs; authored a fix to selectively forward required headers.
- Built a **type-safe** data pipeline using **React Hook Form**, **Zod** schema validation, and **Next.js Server Actions** for authenticated image uploads to **Convex Storage**, achieving end-to-end type safety from client to database.

### Real-Time Secured Chat | *Next.js, Elysia.js, Upstash Redis, Tailwind CSS*

Oct 2025 – Jan 2026

- Reduced message delivery latency by **90%** by architecting real-time pub/sub communication with **Upstash Realtime**, eliminating traditional REST polling and achieving consistent **sub-100ms** synchronization.
- Ensured **100%** data ephemerality by engineering **TTL-based** auto-expiration with **Upstash Redis**, configuring **10-minute** room lifecycles that automatically purge **1,000+** messages and metadata.
- Accelerated API response times by **40%** by building type-safe endpoints with **Elysia.js** and **Zod** validation, leveraging **Eden** for end-to-end type inference across **Next.js 16** App Router with **React Query** caching.

### AI-Powered Resume Analyzer | *React, TypeScript, Puter.js, Tailwind CSS*

Nov 2025 – Dec 2025

- Engineered an **AI-powered** feedback system using **Puter.js** and **Claude-3-Sonnet**, delivering comprehensive resume analysis and **ATS** feedback in under **30 seconds**, increasing user resume quality by an estimated **25%**.
- Developed a responsive UI with **React**, **TypeScript**, and **Tailwind CSS**, improving user task completion rates by **40%** through an intuitive multi-step upload process and interactive visualizations managed by **Zustand**.
- Architected a scalable **serverless** backend using **Puter.js**, reducing infrastructure management overhead by **90%** while handling secure file storage, authentication, and asynchronous **PDF** processing with **pdfjs-dist**.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Next.js, Node.js, Express.js, Elysia.js, Socket.IO, Shadcn UI/Radix UI Tailwind CSS

**Databases:** MongoDB, Convex, Redis (Upstash), RESTful APIs, React Query

**Tools:** VS Code, Zed, Bun, Biome, Better Auth, Docker, Git, GitHub, MongoDB Compass, Postman

**Fundamentals:** Data Structures and Algorithms, OOP, Database Management Systems, Computer Networks

## LEADERSHIP EXPERIENCE

### Engineer - NITK | *Core Member*

April 2024 – Oct 2024

- Co-planned and executed **30+** technical and gaming events for a fest attended by **5,000+** participants.
- Led and managed the gaming events at **Engineer '24**, including a Valorant tournament featuring **80+** teams. Responsibilities included crowd management, scheduling, logistics management, and ensuring smooth execution.
- Resolved on-the-spot logistical and technical challenges during the event, ensuring a positive experience.

## EXTRA-CURRICULAR

- Secured **1st** in inter-NIT Valorant tournaments, leading a team against **100+** teams through strategic planning.
- Organized a nationwide online trading competition with **700+** participants, promoting technical analysis skills.
- Achieved a typing speed of **120 WPM** across **QWERTY** and **Coleman-DH** layouts, reflecting productivity.