

SHRUTIK MESHARAM

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EDUCATION

National Institute of Technology, Karnataka

Dec 2021 – May 2025

B.Tech in Mechanical Engineering

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** forwarding **Content-Length** causing request mismatches.
- Submitted **merged PR** that creates mutable headers and deletes problematic headers, solving the hanging issue.

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, 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** resume analyzer using **Puter.js** and **Claude 3 Sonnet**, delivering ATS feedback and resume scoring across multiple dimensions in under **30** seconds, with **zero** backend infrastructure or server costs.
- Implemented fully client-side PDF processing using **pdfjs-dist** for text extraction and Puter.js for file storage and authentication, eliminating the need for a dedicated backend while handling secure **async AI** calls.
- Architected a multi-step upload flow with **Zustand** for global state management, keeping the **UI** fully reactive across **4** distinct steps: file upload, parsing, **AI** analysis, and results rendering, without **prop drilling**.

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.