Mallar Bhattacharya

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TECHNICAL SKILLS -

Frontend Development:

- JavaScript, TypeScript, React.js
- Next.js 15, Redux, Recoil, Zustand
- Modern frontend architecture and state management

Backend Development & DevOps

- Node.js, Express.js
- Docker, Podman containerization
- MongoDB, PostgreSQL database systems

PROFESSIONAL EXPERIENCE -

Test Engineer | YellCast Inc. | November 2023 – January 2025

- Developed comprehensive test suites for backend APIs using **Bash** scripting and **Postman**
- Identified and resolved critical bugs in **custom Android SDK** implementations
- Collaborated with development teams to improve software quality and reliability

PROJECTS -

[Link] **Chess-Room** | Full–Stack Real–Time Multi User Platform

Technologies: Socket.io, Agora SFU, React.js, Next.js 15, NextAuth, PostgreSQL, Zustand

- Architected and implemented a responsive frontend using **Next.js 15** with modern state management
- Engineered real–time multiplayer functionality using WebSocket technology and TypeScript, achieving <50ms latency for move synchronization
- Integrated **video conferencing** capabilities using **Agora's** Selective Forwarding Unit (SFU) with 99.9% uptime
- Designed and implemented secure user authentication using **NextAuth** with **JWT**
- Deployed and managed **PostgreSQL** database infrastructure on **Aiven**

EDUCATION and COURSES -

Bachelor of Science in Mathematics (Honours) Calcutta University | 2020 – 2023

[Link]

Professional Development

- 100xdevs Cohort 3.0 [Link]