

# UJJAWAL SINGH

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## Technical Skills

- **Frontend Technologies:** React.js, Next.js, TypeScript, Three.js
- **Backend Technologies:** Node.js, Express.js, Python
- **Database Management:** MongoDB, DynamoDB
- **Mobile Development:** Flutter (Dart)
- **Cloud & DevOps:** AWS, GCP, Docker, Vercel, CI/CD Pipelines
- **Tools & Version Control:** Git, GitHub, GitLab, Postman, VS Code

## Experience

### The Yarn Bazaar | Bengaluru, IN

Software Engineer | Sep 2023 to Present

- *Led the modernization of the company website architecture to Next.js on AWS, improving SEO and page speed by 40%.*
- *Developed a chatbot using FastAPI, Cohere, Qdrant, and OpenAI to help users easily track the stage of each query for better internal management.*
- *Built a centralized CRM, streamlining operations and cutting order processing time from a full day to 3-4 orders per day.*
- *Designed and implemented a cross-platform mobile app using Flutter, AWS Lambda, and Node.js, accumulating 1,000+ downloads.*

## Key Strengths

- *Taking ownership in high-pressure situations, stepping up to lead sprint planning and track ticket progress after the tech lead's departure, ensuring development continuity.*
- *Adapting to new technologies, learning Flutter within a sprint (2 weeks) and delivering a fully functional first version of a mobile app in under a month.*
- *Cross-functional collaboration, working closely with business, operations, finance, and account teams to develop a centralized CRM, aligning technical solutions with real-world needs.*

## Education

### Masai School

Intensive Full-Stack Web Development Training | June 2022 to Aug 2023

### Lovely Professional University

Bachelors in Technology (EEE) | Aug 2018 to May 2022

# Projects

## **TYB Chatbot | The Yarn Bazaar**

*May 2025 to present*

Designed and developed an internal chatbot leveraging FastAPI, Cohere, Qdrant, and OpenAI to streamline query tracking and information retrieval across teams. This reduced manual searching, improved data accessibility, and enhanced communication efficiency.

- Query tracking: Enabled users to easily monitor the status and details of their product price queries in real time.
- Information retrieval: Integrated advanced embedding and vector search to provide fast, accurate responses from large datasets.

## **Website | The Yarn Bazaar**

*Jan 2025 to present*

Directed a team of developers and a designer in transforming a static HTML, CSS, and JavaScript website into a high-performance, modern Next.js architecture, significantly improving site performance and content management capabilities.

- *Content management system: CMS for the marketing team, simplifying content updates for blogs, news, and podcasts, and reducing developer dependency by 70%.*
- *Optimized SEO and performance: Leveraging Next.js SSR resulted in a 40% boost in page load speed.*

## **CRM | The Yarn Bazaar**

*Dec 2023 to Jan 2025*

Centralized lead, product, document, and contact management, providing a 360-degree customer view and easier data access.

- *Automated lead communication: Integrated WhatsApp bot, email, and call automation for real-time notifications and faster response times.*
- *Sales operations: Enabled Google Maps integration, simplifying company visits and improving on-site engagement.*
- *Automated document processing: Implemented OCR technology, cutting manual data entry time by up to 70%.*

## **TYB Mobile App | The Yarn Bazaar**

*Sep 2023 – Nov 2023*

Engineered and deployed native mobile applications for both iOS and Android using Flutter, AWS Lambda, and Node.js, achieving 1,000+ downloads.

- Industry insights and resources: A media hub delivering news, podcasts, and information on upcoming exhibitions.
- Specialized tools: A textile calculator for accurate industry-related computations.