

Aarjya Bharadwaz

arya.bharadwaz@gmail.com | +91 6370666762 | [LinkedIn](#) | [Github](#) | [Portfolio](#)

SUMMARY

Frontend Engineer with 2+ years of experience building scalable, performant web applications using JavaScript, TypeScript, React, and Next.js. Worked in fast-paced product teams with broad exposure to both frontend and backend responsibilities, enabling deeper understanding of architecture, API integration, and system design. Passionate about developer experience, interactive UIs, and performance optimization.

SKILLS

Languages: JavaScript, TypeScript, Go

Frameworks: Jquery, React, Next Js, ExpressJs

Databases: MongoDB, Neo4j

Technologies: Tailwind Css, ShadCn Ui, Rest Api, GraphQL, React-Query, Redux, Git, NodeJs

WORK EXPERIENCE

SIMULATION SOFTWARE & TECHNOLOGY PTE LTD | FRONTEND ENGINEER Singapore | Nov 2024 – May 2025

- **Tech Stack:** React, TypeScript, Tailwind CSS, SCSS, Radix Ui, REST APIs, Microfrontend Architecture
- Built and maintained a microfrontend-based enterprise application using React, TypeScript, and Tailwind CSS.
- Integrated a report dashboard with a trend analysis app via messageBus, improving modularity and real-time data consistency.
- Implemented interactive graph visualizations using @antv/g6 and react-force-graph-2d for scalable analytics.
- Contributed to the Backend for Frontend (BFF) layer using Node.js, designing REST endpoints and optimizing performance.
- Designed document schemas in MongoDB for stateful components and app configurations.

HAPPYMONK AI LABS | FRONTEND DEVELOPER Bengaluru | Aug 2023 – Oct 2024

- **Tech Stack:** Typescript, NextJs, Material Ui, GraphQL, React-query
- Fullstack development of an interactive graph analysis web app, designing a **Next.js + Apollo Client** frontend integrated with a **Go + SQL** backend to serve structured relationship data for seamless, data-rich visualizations.
- Developed a real-time logging module with persistent storage in MongoDB.
- Implemented server-side rendering and optimized data-fetching, improving load speeds by 40%.

FRONTEND DEVELOPER INTERN Bengaluru | May 2023 – July 2023

- **Tech Stack:** Typescript, NextJs, Material Ui, GraphQL
- Implemented URQL for **GraphQL data fetching**, enhancing blog section performance by **reducing load times** by 40% and increasing **user interaction efficiency**.
- Integrated URQL for GraphQL data fetching, improving performance of blog section by 40%.
- Built interactive maps using Mapbox GL and implemented real-time styling logic based on user interactions.

PROJECTS

FINBOARD | FREELANCE

- **Tech Stack:** React, React-Query, Redux, ShadCN-UI, Google Apps Script
- Engineered FinBoard's primary plugin from inception to completion, utilizing React and implementing **scalable architecture** and **maintainable code patterns** for future use.
- Built a **REST API integration layer** using **React Query**, enabling caching and real-time updates for efficient data-fetching, enhancing performance by up to 50%.
- Collaborated with designers to translate wireframes into pixel-perfect components using **ShadCN UI** and **Tailwind**, while managing global state with **Redux**.

CLICHAT – TERMINAL-BASED REAL-TIME CHAT APP

- **Tech Stack:** Go, WebSockets, Bubbletea, Concurrency, TUI
- Explored Go and systems programming by building a CLI chat app with real-time WebSocket messaging and styled terminal UI using Bubbletea.

- Designed a concurrent WebSocket server from scratch using:
 - Goroutines & channels for client communication
 - A centralized Hub pattern for client state management
 - Mutex locks to ensure thread-safe access and avoid race conditions
- Implemented graceful connection handling, broadcast messaging, and dynamic TUI updates. Gained deep understanding of concurrency, channel communication, and system design in Go.

EDUCATION

BACHELOR'S DEGREE IN COMPUTER SCIENCE
GANDHI INSTITUTE FOR TECHNOLOGY

Bhubneswar, Odisha | Jul 2018 - May 2022

- **Extra-Curricular:** Won the Inter-College Football Championship - 2019 (House Division)