

# Aarjya Bharadwaz

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## SKILLS

**Languages:** JavaScript, TypeScript, Go, Python  
**Frameworks:** Jquery, React, Next Js, ExpressJs

**Databases:** Postgresql, MongoDB, Supabase

**Technologies:** Tailwind Css, ShadCn Ui, Framer-Motion, Rest Api, GraphQL, React-Query, Redux, Git, NodeJs, Docker, Cursor Ai

## WORK EXPERIENCE

### SIMULATION SOFTWARE & TECHNOLOGY PTE LTD | SOFTWARE ENGINEER

May 2025

Singapore | Nov 2024 –

- Tech Stack: React, TypeScript, Tailwind CSS, SCSS, Radix Ui, REST APIs, Microfrontend Architecture
- Integrated the report dashboard with the trend analysis module via a **messageBus architecture**, enabling **decoupled communication** and ensuring **real-time synchronization** of analytics data.
- Built interactive graph visualizations using **@antv/g6** and **react-force-graph-2d**, enabling analysts to easily explore large datasets and uncover **key relationships between entities**.
- Integrated the **Backend-for-Frontend (BFF)** layer in Node.js, connecting and **proxying requests** to various **Python/ML-based microservices** for seamless frontend-backend interaction.
- Practiced **TDD to build maintainable, bug-resistant features**, and set up **CI workflows that automatically ran tests** on every commit, ensuring consistent code quality across the team.

### HAPPYMONK AI LABS | FULLSTACK DEVELOPER

Bengaluru | Aug 2023 – Oct 2024

- Tech Stack: 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 - Postgres** backend to serve structured relationship data for seamless, data-rich visualizations.
- Contributed to a **real-time logging module** with persistent storage in MongoDB, enabling faster debugging and **improving visibility into application health** for the engineering team.
- Implemented **server-side rendering (SSR)** and **optimized data-fetching logic**, cutting initial page load times by 33% and enhancing the overall user experience on slower networks.

### 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**.
- Migrated the blog section to **URQL for GraphQL data fetching**, reducing redundant network calls and **improving render performance** by roughly 25%, resulting in noticeably faster page loads.
- Built interactive, data-driven maps with **Mapbox GL**, adding real-time style updates that responded to user selections and **improved engagement** in location-based dashboards.

## PROJECTS

### FINBOARD | PROJECT-BASED FRONTEND DEVELOPER ↗

- 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**.

### CLICCHAT - TERMINAL-BASED REAL-TIME CHAT APP ↗

- Tech Stack: Go, WebSockets, Supabase

- 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
  - User Authentication and storing chat history in supabase db.
- 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

Bhubaneswar, Odisha | Jul 2018 - May 2022