

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 Singapore | Nov 2024 – May 2025

- **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:** 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**.

CLICHAT – 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

Bhubneswar, Odisha | Jul 2018 - May 2022