

Aarjya Bharadwaz

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SKILLS

Languages: JavaScript, TypeScript, Go

Frameworks: JQuery, React, Next Js, ExpressJs

Databases: Postgresql, MongoDB, Supabase

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

WORK EXPERIENCE

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

- **Tech Stack:** MERN, TypeScript, Microfrontend Architecture
- Engineered a microfrontend architecture using **React and Mashroom Plugin** to deliver seamless cross-module navigation and a cohesive UX.
- Integrated the report dashboard with the trend analysis module using a **messageBus**, allowing **independent communication** and keeping analytics data **in real-time sync** within the modules.
- 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 frontend-backend interaction.

HAPPYMONK AI LABS | SOFTWARE ENGINEER Bengaluru | July 2022 – Jan 2024

- **Tech Stack:** Typescript, NextJs, 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.
- 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.
- 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.

SOFTWARE ENGINEER INTERN Bengaluru | Jan 2022 – Jun 2022

- **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.

EDUCATION

BACHELOR'S DEGREE IN COMPUTER SCIENCE
GANDHI INSTITUTE FOR TECHNOLOGY

Bhubneswar, Odisha | Jul 2018 - May 2022

PROJECTS

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 and channels for client communication, a centralized Hub for state management, mutex locks for thread-safe operations, and integrated user authentication with chat history stored in Supabase.