

Madhuja Mitra

Full Stack Engineer | Frontend Developer

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Skills

Programming Languages	JavaScript Node.js Typescript SQL PostgreSQL SCSS CSS HTML ASP.NET
Framework/Libraries	React Next.js Redux React Native GraphQL MongoDB Gulp Express.js Angular Redis Caching Jest
Others	Docker Kubernetes GitLab CI/CD AWS (ECS, EC2, Lambda) Azure Linux Tailwind CSS Material UI Git Serverless Scalability API Development (REST & RPC) Agile Ownership WCAG 2.1 OAuth OpenAI

Experience

Actofy.ai, Software Engineer

Vancouver, Aug 2024 | April 2025

- Architected and built a **React** application from scratch, integrating **Supabase** for real-time data management and efficient state handling, enabling a custom **LLM model** for image and video generation.
- Optimized backend workflows with serverless functions in **TypeScript**, leveraging **Supabase** edge functions to reduce platform latency by **30%** and enhance real-time responsiveness.
- Implemented a content generation **queue** using Supabase's **pgmq** queue, coupled with scheduled **cron** jobs and a dedicated worker, improving task sequencing and eliminating 95% of content generation errors, resulting in more reliable and efficient processing.

Yunwenverse Media Inc, Software Engineer

Vancouver, Feb 2024 | May 2024

- Spearheaded the creation of an interactive **React** data visualization tool with integrated **RESTful APIs**, driving an increase in user engagement and improving decision-making efficiency, resulting in a 25% increase in user engagement.
- Built a push notification system with **AWS SQS** and **SNS** to enable real-time communication, improving system monitoring and performance by 25% using CloudWatch.

Infosys, Software Engineer

Bangalore, Dec 2021 | Dec 2023

- Enhance the **member's world** platform performance by 42% using **Next.js** for server-side rendering and image optimization, leading to a measurable boost in user engagement.
- Engineered a reusable component library using MVC framework alongside **React**, **SCSS**, and **Webpack**, integrated with an **ASP.NET** backend, enabling rapid development of consistent **UI5** interfaces and reducing development time by 30%.
- Led a project to improve the Member's World platform's accessibility in compliance with **WCAG 2.1** guidelines, enhancing responsiveness and user experience across devices.
- Orchestrated the strategic migration of legacy systems where the project was containerized using **Docker** integration, enhancing application maintenance and future **scalability** by 30%, streamlining operations, and reducing system complexity.

Colt Technology, Engineer

Bangalore, Jul 2018 | Dec 2021

- Worked on **responsive, mobile-first UI** components for Colt's online platform, improving accessibility and usability using **React**, **JavaScript**, and **Material UI**, leveraging **SCSS** for adaptive layouts, resulting in a 25% increase in user engagement and 30%.
- Automated development workflows with **GitLab CI/CD** and **AWS** integration, reducing merge conflicts by 25%, deployment times by 40%, and improving team efficiency by 20%.
- Worked on server-side rendering and integrated **JWT** and RESTful **HTTPS** protocols for the Colt online platform, ensuring compliance with industry-standard security practices which eventually led to a secure platform for the orders.
- Applied advanced debugging techniques in single-page applications to improve software reliability, reducing UI bugs by 40% through comprehensive testing with **Jest**, and **Cypress**

Projects

- MakeitMVP**: During a 6-week project, I used AI to create a model that helps individuals find a peer with similar goals, and generates goals to promote accountability. I used React, SCSS, and Firebase to develop the user interface for the project.
- HireSwift**: Developed a job portal that limits postings to 50 applications, automatically closing for review and reopening if suitable candidates are not found. Utilised React, Express, and JWT/Google Auth for secure, efficient user authentication and application management, ensuring platform reliability and scalability.

Education

- Bachelor's in Electronics and Communication Engineering | Dr. A.P.J. Abdul Kalam Technical University
- Diploma in Software Engineering | Brainstation