CHETHANA VIRAJINI

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Ⓜ medium.com/@byte.talking 🌐 chethana-virajini-portfolio.vercel.app

About me

Results-driven Software Engineer with over 2 years of experience in building scalable, user-centric web applications using **React.js**, **Next.js**, and **TypeScript**, complemented by backend experience in **NestJS**. Adept at leading frontend architecture, implementing responsive UI/UX with **Tailwind CSS**, and optimizing performance in large-scale CRM and real-time communication platforms. Strong problem-solver with a track record of delivering high-quality, maintainable code in agile environments. Passionate about clean code, component reusability, and creating seamless user experiences through modern web technologies.

Experience

Aventage Labs   Nov 2024 – Present
Software Engineer – Frontend   *Colombo, Sri Lanka*

- Led the **frontend architecture and component design** for SA Ventures CRM business application, ensuring scalable, maintainable, and high-performing Next.js applications.
- Designed and implemented modular, scalable component architecture for dynamic modules
- Collaborated with UI/UX designers and product managers in weekly sprint planning and design discussions to align technical implementation with business goals.
- Implemented responsive and accessible UIs using Tailwind CSS and modern design patterns (e.g., component-based architecture with module based approach)
- Conducted peer code reviews, enforced code quality standards, design sessions.
- Integrated complex APIs (REST/JSON-RPC) with robust error handling and state management - **React Query**, handling caching, errors, and fallback UI
- **Deployed Next.js applications in Docker-based environments** with robust environment configuration management, including handling environment-specific security concerns for authentication cookies.
- Worked closely with cross-functional teams through design reviews, agile ceremonies, and peer code reviews to ensure UX and technical quality.

Medfuture Healthcare & Recruitment   June 2023 – Nov 2024
Full Stack Engineer   *Remote*

- Worked on the frontend of the healthcare recruitment platform using **React.js**, ensuring responsive and user-friendly interfaces.
- Built dynamic and reusable components to improve scalability and reduce code duplication.
- Integrated RESTful APIs and implemented application state management using **Context API**.
- Delivered key features including job search filters, application forms, and user dashboards.
- Collaborated with the backend team using **PHP** and **MySQL** to support user registration and submission workflows.

Upview Technologies   Jan 2023– June 2023
Software Engineer   *Remote*

- Developed web applications using **React.js**, **Next.js**, **Tailwind CSS**, **Redux**, and **React Query**.
- Contributed to the development of **Dinegrid** (a real-time restaurant system) and **Tourcan Vacation** (a Canadian tourism platform).
- Applied **SOLID principles** to build maintainable, scalable React components and clean architecture.
- Built and maintained backend services using **Node.js** and **Express.js**; integrated **Stripe** for secure online payments.
- Implemented real-time features using **Socket.IO**, including order tracking .
- Set up CI/CD pipelines via **GitHub Actions** to automate testing and deployment to AWS environments.

Education

Bachelor of Science of Engineering   **University of Moratuwa**
GPA: 3.31   *2016 – 2021*

GCE Advanced Level (Physical Science)   **Sirimavo Bandaranaike Vidyalaya, Colombo 07**
Z-Score: 2.1269 | Results: 2As & 1B   *Aug 2015*

Industrial Projects

SA Ventures CRM Platform | *Frontend Architecture, Docker Deployment*
- Led the frontend implementation of a large-scale CRM platform using **React.js**, **Next.js**, and **TypeScript**, delivering scalable and performant modules for lead, job, and ticket management.
- Architected reusable UI components and implemented design systems using **Tailwind CSS**, improving UI consistency and development speed.
- Collaborated with UI/UX designers to convert high-fidelity Figma designs into responsive, accessible web pages.
- Integrated RESTful JSON-RPC APIs with robust error handling and state management using **React Query**.
- Managed frontend deployment using **Docker**, including environment variable setup, Dockerfile optimization, and deployment automation.
- Performed performance tuning and SSR optimization using Next.js, improving TTFB and SEO readiness.

SA Ventures Connect – Real-Time Chat Application | *Frontend Implementation, WebSocket Integration*
- Developed a full-featured real-time chat interface using **React.js**, with support for **individual and group conversations**, **optimistic updates**, **media attachments**, and **online presence**.
- Implemented **optimistic UI updates** and cache invalidation using **React Query** for a smooth user experience.
- Integrated frontend with REST APIs and real-time sockets using **Socket.IO**, handling event streams and reconnections.
- Built modular components for chat bubbles, contact lists, group creation, and message input with emoji/file support.
- Handled browser notifications and unread message indicators, enhancing user engagement across devices.
- Collaborated with QA and backend teams to ensure seamless integration, handling edge cases in real-time sync and data consistency.

Medfuture CRM Platform | *Internal Recruitment System*
- Developed and maintained the internal CRM system to manage healthcare job postings, candidate applications, and recruiter workflows.
- Built reusable React.js components and managed complex state with Context API for efficient data handling.
- Collaborated with backend team on PHP/MySQL REST APIs to ensure secure data exchange and smooth user experiences for recruiters and admins.
- Implemented role-based access controls and dashboard analytics for enhanced recruitment management.
- Supported Docker-based deployments and participated in CI/CD pipeline setups to streamline releases.

Medfuture Web Application | *Public Healthcare Recruitment Portal*
- Designed and developed the public-facing job portal accessible at medfuture.com.au, allowing candidates to search, filter, and apply for healthcare roles across Australia and New Zealand.
- Implemented advanced search filtering (by profession, location, salary, availability) using React.js and Next.js for a responsive and accessible user experience.
- Optimized SEO via server-side rendering (SSR), dynamic meta tags, structured data, and Open Graph integration to improve organic search visibility.
- Integrated RESTful APIs with efficient client-side state management using Context API and React Query.
- Worked closely with UI/UX designers and QA to ensure cross-browser compatibility and mobile responsiveness.

Medfuture Blog | *Healthcare Insights and Employer Branding*
- Developed a dynamic blog system featuring category-based filtering, dynamic routing, and content management to deliver timely healthcare industry insights.
- Implemented performance optimizations including lazy loading, caching strategies, and SEO enhancements to maximize reach and engagement.
- Enabled easy content updates via integration with backend CMS APIs, supporting editors in publishing and managing blog posts.
- Ensured consistent design and responsiveness aligned with the main Medfuture web application styling and branding.

DineGrid / Inegrid Real-Time Restaurant System | *Full-Stack Development, Real-Time Order Management*
- Developed a scalable real-time restaurant management system enabling order tracking, table management, and staff coordination using **React.js**, **Socket.IO**, and **Node.js**.

- Implemented real-time notifications and status updates for orders and kitchen workflows, improving operational efficiency and reducing wait times.
- Built reusable frontend components with **Tailwind CSS** for a responsive UI supporting multiple device types including POS terminals and mobile devices.
- Integrated backend REST APIs and WebSocket communication for seamless data synchronization between kitchen, waitstaff, and management interfaces.
- Collaborated with cross-functional teams including backend developers and QA to deliver timely releases and ensure system reliability.

Key Skills

Technical | *Frontend & Full-Stack Development*

- React.js, Next.js, TypeScript, Tailwind CSS, React Query, Context API
- RESTful APIs, JSON-RPC integration, Socket.IO for real-time communication
- State management, component-driven architecture, responsive and accessible UI
- Docker containerization, CI/CD pipelines
- Agile methodologies: Scrum, Kanban; collaboration using JIRA and Git

Courses and Certifications

LinkedIn Learning

- Learning REST APIs — 2023
- Test Automation Foundations — 2023
- Software Development Life Cycle (SDLC) — 2023
- Agile Software Development — 2023

Udemy

- Master Node.js & Deno.js: Build REST APIs, GraphQL APIs, Authentication, MongoDB, SQL
- Master Modern React: Next.js, Context API, React Query, Redux, Tailwind, Advanced Patterns
- Full-Fledged Data Science Course: Statistics, Maths, Python, EDA, Machine & Deep Learning (Ongoing)

References

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