

Rhythm Aich

+91-8016919157 | rhythmmaich@gmail.com | github.com/aichRhythm | rhythmmaich.dev | Pune, India

Hello! I am a React and React Native developer with experience creating robust, user-friendly applications, primarily for the banking, insurance and financial services sector. I specialize in building scalable, high-performance solutions that enhance user experience and streamline business operations.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, HTML, CSS, Python, SQL

Frameworks: React, React Native, Node.js, Next.js, Redux, Jest, JWT Authentication, Material UI, TailwindCSS, styled-components, Bootstrap

Developer Tools: Git, GitHub, VSCode, IntelliJ, Eclipse, Android Studio, XCode, Postman, Swagger, Figma, Docker, Webpack, Babel, npm, pnpm, ESLint, Prettier, Jira, Confluence, BitBucket, SourceTree

Database Management Systems: PostgreSQL, MongoDB, MySQL

Cloud and DevOps: Firebase, Docker, Kubernetes, CI/CD pipelines (GitHub Actions)

Testing: Jest, React Testing Library, Enzyme

Concepts and Methodologies: Agile, RESTful APIs, SOAP, DOM, AJAX, Microservices architecture, CI/CD, Test-Driven Development (TDD), Object Oriented Programming, SOLID principles

EXPERIENCE

Associate Consultant | Capgemini India

October 2022 – Present

Pune, India

Mobile Banking Application/Developer Tools and Libraries | *React Native, Jest, Github Actions*

- Designed and developed high-performance, reusable UI components (e.g., **datepicker**, **dropdown**, **typeahead**, **collapsible menus**) from scratch using **TypeScript** and **React Native**, for a major banking client, with a focus on pixel-perfect custom designs and animations. Delivered a seamless and polished user experience across both **Android** and **iOS** platforms.
- Leveraged React Native bridging technology to implement backend utility modules, including **logger**, **push notifications**, **QR code scanner**, and **document/media viewer**. Integrated **native iOS** and **Android** functionalities into the React Native ecosystem, ensuring cross-platform consistency and leveraging platform-specific capabilities to enhance performance and functionality.
- Implemented automated testing using **Jest** and **React Testing Library**, achieving **95% test coverage** for both unit and integration tests, significantly reducing bugs and regressions.
- Optimized app performance by implementing **code splitting**, **lazy loading**, and **memoization** techniques, significantly reducing load times and improving memory efficiency. Used **React Profiler** and **Chrome DevTools** to measure and analyze performance bottlenecks, achieving a **30% reduction in load time** and a **20% improvement in memory usage**. Enhanced rendering performance for data-intensive features like media viewing and QR scanning, ensuring a seamless user experience across low-end and high-end devices. Metrics were tracked using **Google Analytics** and **in-app performance monitoring tools**, resulting in a **25% increase in user engagement** on resource-constrained devices.

Real-time Banking Analytics Dashboard | *React, Node.js, Redux, PostgreSQL*

- Developed a real-time banking analytics dashboard for a major banking client using **React** and a **microfrontend architecture**, enabling independent development, testing, and deployment of modular UI components for features like user transaction details, account statistics, and customer feedback. Built on top of a **pre-existing Node.js backend** system to deliver seamless integration.
- Ensured consistent UI styling across microfrontends using **Material UI**, while allowing each module to maintain visual independence. Improved development efficiency by creating a shared component library for reusable UI elements.
- Centralized application state management using **Redux Toolkit**, enabling predictable state transitions across microfrontends and improving maintainability. Integrated **Thunk middleware** for handling asynchronous operations and used **Redux DevTools** to streamline debugging and enhance developer productivity.

- Collaborated in an **Agile development environment** with bi-weekly sprints and daily standups, coordinating with cross-functional teams to prioritize features and rapidly deliver incremental improvements based on client feedback.
- Optimized **PostgreSQL database queries** for large-scale transactional data across 100+ bank branches, reducing query execution time through indexing strategies and query refactoring.

Internship Trainee | Capgemini India

February 2022 – April 2022

Pune, India

API layer of Customer Service Application | *Express, Node.js, MongoDB, Stripe, SendGrid*

- Built and maintained **RESTful APIs** using **Express** for the customer service application of an insurance giant, enabling seamless interactions between customers and backend systems.
- Integrated third-party APIs such as **Stripe** for payment processing and **SendGrid** for email communication, streamlining the customer service experience.
- Utilized **MongoDB** for database operations, ensuring efficient handling of dynamic, schema-less data structures related to customer profiles, transaction history, and support tickets.

Production Intern | Nestlé India

April 2021 – May 2021

Goa, India

Automation of product packaging line | *Microsoft Excel, Microsoft Powerpoint*

- Designed and evaluated automation solutions to streamline sauce packaging, conducting feasibility studies and vendor assessments. Selected a solution projected to **increase throughput by 20%** and reduce labor costs.
- Developed a quantitative cost model by integrating data from multiple sources, estimating project costs at \$200,000+ for equipment, software, and materials. Identified cost-saving strategies **projected to save 10% over 2 years**, validated through vendor quotes and historical cost analysis.

EDUCATION

National Institute of Technology, Durgapur

Bachelor of Technology, Chemical Engineering

CGPA - 7.62

Durgapur, India

June. 2018 – June 2022

ACHIEVEMENTS

Rising Star Award | Capgemini India

2023

In recognition of outstanding performance and lasting contribution in H2-2023

Best Paper Award | 35th Indian Engineering Congress

2020

For presenting my paper in the Chemical Engineering Division at the 35th Indian Engineering Congress

PUBLICATIONS

Optimization of High Density Polyethylene (HDPE) Reactor Using Artificial Intelligence

Journal of Interdisciplinary Research in Technology and Management

Published by Taylor and Francis Group

2021