

CAI YANG

FRONTEND DEVELOPER

OBJECTIVE

A results-driven Senior Frontend Developer with 5 years of experience specializing in building high-performance, scalable web applications using the Next.js, React, and TypeScript stack. Proven expertise in modern React patterns, state management, and performance optimization to deliver exceptional user experiences. Passionate about improving code quality, and leading projects from conception to successful deployment.

EXPERIENCE

SENIOR ENGINEER. ASTRI

Aug 2023 - Present

Migrated React SPA to a Next.js 14 application (App Router), improving building performance.
Implemented global state management using Zustand, replacing complex Redux setups for better maintainability
Designed and developed responsive, data-intensive interfaces based on client requirements.

Key Projects:

Housing Authority- AI Lift

Designed a Google Maps-based component to visualize estates with markers, clustering, and filtering.

Migrated the project from React to Next.js, optimizing performance and deployment.

Boc & OCBC- Compliance check platform

Developed dashboards with multi-type charts, tables, and user interaction features.

Implemented role-based access control (RBAC) and real-time data updates via WebSocket.

ICAC – Case analysis platform

Built the system part and integrated with teams' ai generated component.
Built the knowledge graph component for user to interact with entity relations.

ENGINEER. ASTRI

Oct 2020 – July 2023

Developed user-facing features using React and TypeScript.
Collaborated with backend teams to design RESTful APIs and ensure efficient data integration.

CONTACT

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EDUCATION

The Hong Kong Polytechnic University
2019/09-2020/09

School of Design,
Master of science, Multimedia Entertainment Technology

Nanjing University of Aeronautics and Astronautics

2014.09-2018.06

School of Computer Science and Technology

Bachelor's degree, Internet of Things Engineer

SKILLS

Frontend development
Product design (Figma)
Usability testing

User research

Conducted usability testing and user research to align deliverables with client needs.

Key Projects:

ESG data analytics platform.

Architected and built the core analytics dashboard from Figma to production, using BizCharts for interactive data visualization. Transformed complex ESG datasets into intuitive charts for trend analysis and decision-making.

CCAS Platform

Front end module development. Managing notification lifecycle including creation, delivery, display, and dismissal.

Create a comprehensive project test plan covering the Notification Module and the entire system.

Documentation of test cases, expected results, and testing methodologies.

ENGINEER (PI). ASTRI

Nov 2019 - Oct 2020

Implemented responsive UIs from design mockups using React.js. Supported cross-browser compatibility testing and documentation.