

Ahmad Khairul Anwar

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Summary

Software engineer with **10+ years** of technical experience, including specializing in Front-End development using **React.js** and **Tailwind CSS**. Proven track record in **leading teams** and delivering **scalable, production-ready interfaces** for EdTech platforms serving **350K+ users**. Also experienced with **React Native, Express.js**. Consistently maintaining **80%+ test coverage** across major projects. Skilled in implementing **micro-frontend architecture**, building reusable UI libraries, and integrating with large-scale, cloud-based systems. Focused on **modern Front-End ecosystems**, clean & scalable architecture, cross-functional collaboration, exploring emerging technologies to expand my development toolkit and stay adaptable. Now seeking a new opportunity where I can contribute to a high-impact team, build better user experiences, and grow with industry best practices.

Portfolio

Pijar Sekolah

2025

Lead Front-End Developer

- A responsive landing page showcasing Pijar Sekolah's features, achievements, and user testimonials, with interactive sections and clear CTAs for free trial and subscription, fully responsive across desktop, tablet, and mobile.
- Built with performance and accessibility in mind, optimized across desktop, tablet, and mobile devices. Handled layout complexity involving high-resolution images, custom Lottie animations (including one I created), and implemented lazy loading and scaling strategies to ensure smooth rendering across all viewports.
- **Stack:** Next.js, Tailwind CSS, shadcn/ui, Lottie

School Information System for Teacher

2020 - 2025

Front-End Developer

- Core platform for teachers to manage digital learning, including task assignments, grading, CBT planner, virtual classes, announcements, academic reports, file manager, 3rd party content integration, google drive integration, chat feature integration with firebase as realtime notif and many more.
- Special attention was given to timezone handling, ensuring date-sensitive actions align accurately with either the school's or user's local time.
- **Stack:** React.js, Tailwind CSS, Emotion, Redux Toolkit, React Query, Jest, React Testing Library, Firebase, Legion-ui.

Computer Based Test

2020 - 2025

Front-End Developer

- A digital platform designed for users to take exams, similar to Quizizz, supporting desktop, tablet, and mobile devices.
- The platform is equipped with an automatic remote block option and offers eight different task styles, providing a versatile and secure environment for online assessments. Fully responsive across both desktop and mobile, it ensures a seamless experience across devices.
- **Stack:** React.js (old version), Next.js, Tailwind CSS, React Query, React Testing Library, Jest

Student Module**2020 - 2025****Front-End Developer**

- Student-facing web app for accessing digital learning materials, assignments, and academic progress, chat and payment feature with firebase for real time notification. Fully responsive across desktop, tablet, and mobile.
- **Stack:** React.js, Tailwind CSS, Emotion, Redux Toolkit, React Query, Jest, React Testing Library, Firebase

School Portal**2021****Front-End Developer**

- Routing interface for schools, directing teachers to SIM and students to their respective dashboard — fully responsive across desktop, tablet, and mobile.
- **Stack:** React.js, Tailwind CSS, Emotion, Redux Thunk, Jest, Enzyme

Education Analytics Dashboard**2024****Front-End Developer**

- Internal dashboard for government and management to monitor school usage, activity metrics, and student progress with dynamic filters and chart components. Including numerous graphics and charts, and if not carefully managed, they may disrupt the layout and user experience, particularly in mobile and desktop views.
- **Stack:** React.js, Tailwind CSS, React-apexchart, React Query, React Testing Library, Jest, React-apexchart

School Subscription Dashboard**2020 - 2025****Front-End Developer**

- Internal tool used by the operations team to manage school subscriptions and monitor team performance. Features include password reset for students and teachers, centralized exam management across schools, tracking subscription types (prepaid, postpaid, trial), and displaying metrics for each ops member based on school acquisition.
- **Stack:** React.js, Tailwind CSS, React-apexchart, React Query, React Testing Library, Jest

Face Recognition Attendance App**2017****Software Engineer**

- Developed a face recognition attendance application to address the limitations of traditional card-based systems, which are vulnerable to cheating. I designed and implemented the entire solution, including problem identification, UX design, stack selection, integration with the Kairos API, and testing.
- The system utilizes photobooth.js for image capture, **achieving a 90% match rate**. Additionally, the platform automates salary calculations and printing, eliminating the need for HR to manually collect attendance cards and calculate salaries, which previously took 8 hours.
- **Stack:** JavaScript, MySQL, Kairos API, Photobooth.js

School Information System for College**2013****Software Engineer**

- Developed and deployed an academic portal for online course registration, KRS/KHS printing, and an online library system. The portal includes features such as a book catalog, loan records, and user access roles, and is **used by over 200 students** at Sekolah Tinggi Teknologi Jabar. Ensuring the UI/UX was intuitive and accessible, considering the diverse user base, including college students over 60 years old.

Annora Photobooth**2024****Lead Software Engineer**

- Freelance project, a web app designed to streamline photo booth sessions with an integrated payment system using **Midtrans**.
- I was responsible for the **entire application architecture**, including the **front-end, backend API design**, and deployment. also created an admin dashboard to manage photo booth transactions, frames, filters, and reports.
- Key features included a dynamic **photo slideshow, frame and filter selection, auto-discount application, photo printing**, and **user feedback via QR code scanner**.

Delightful Crumb Series**2024****UI/UX Researcher**

- Conducted a comprehensive UI/UX research project for two applications: "**Delightful Crumbs**", a recipe platform for desktop and mobile, and "**Baking Timer**", a mobile-first timer app for bakers. The research involved **user interviews, pain point analysis, competitive benchmarking**, and iterative **low-to-high fidelity prototyping**. Delivered finalized **wireframes and high-fidelity designs** using Figma, tailored to user needs across platforms.
- <https://ahmadkhairul.github.io/portofolio/delightfull-crumbs.html>
- <https://ahmadkhairul.github.io/portofolio/delightfull-crumbs-web.html>
- <https://ahmadkhairul.github.io/portofolio/baking-timer.html>

Explorer, File Management System**2020 - 2025****Software Engineer**

- Self-initiated Project, an explorer-like application project to explore Vue.js on the Front-End and Elysia.js (Bun) & Go (as backup) on the Back-End. Back-End deployed via Supabase.
- <https://github.com/ahmadkhairul/explorer>
- <https://github.com/ahmadkhairul/explorer-api> (Go)

QuizPlayIO**2020 - 2025****Mobile Developer**

- Self-initiated Project, a React Native app for flashcard-style quizzes. Built to explore mobile development and component-driven architecture. I handled layout, logic, and basic state management.
- <https://github.com/ahmadkhairul/quiz-play-io>

Breedner**2020****Full Stack Developer**

- Bootcamp project, a tinder-style pet matching app created during bootcamp. Created using React.js for Front-End and Express.js for Back-End
- <https://github.com/ahmadkhairul/BreedNder>

Landtick**2020****Full Stack Developer**

- Bootcamp project, a ticket booking platform made as a bootcamp final project. Created using React.js for Front-End and Express.js for Back-End
- https://github.com/ahmadkhairul/dw14yqtsv_lantik

Work Experience

Lead Front-End developer	Telkom Indonesia Jakarta, Indonesia	2020–2025
<ul style="list-style-type: none"> • Developed Pijar Sekolah application series serving 500,000+ users including students, teachers, stakeholders, ops teams and government by converting 100+ Figma designs into pixel-perfect, responsive interfaces using React.js and Tailwind CSS. • Integrated 100+ APIs across 10+ Projects using REST API, ensured 80%+ unit test coverage with Jest, Enzyme and React Testing Library, reduced critical errors by 30% with ESLint & SonarQube, and optimized performance with Webpack and Lottie animations. • Led a 1 to 5-person Front-End team, conducted code reviews, mentored new joiners, collaborated with development team, built reusable components, implemented unit testing, API Integration and deploying features to staging & production using CI/CD pipelines for smooth and timely releases. 		
Front-End developer	Karya Mitra Utama Bandung, Indonesia	2016–2019
<ul style="list-style-type: none"> • Proposed, initiated, and developed custom web applications using Javascript, CSS. IoT-enabled and streamlined existing workflows — resulting in a 90% reduction in manual workload and significantly increasing operational efficiency. • Designed and built applications to eliminate repetitive tasks, enabling users to achieve their goals more efficiently without switching between multiple platforms or performing manual updates. • Collaborated with vendors to develop applications tailored solutions by gathering detailed requirements, conducting in-depth research, and analyzing relevant data to ensure the final product aligned with business needs and specifications. 		
Front-End developer	Sekolah Tinggi Teknologi Jawa Barat Bandung, Indonesia	2013–2016
<ul style="list-style-type: none"> • Developed and IoT-enabled academic systems using Javascript, CSS. Streamlining workflows and reducing manual data entry by 90%. • Converted paper-based processes—including payments, academic records, and library data—into fully digitized web applications, improving accuracy and accessibility for over 200 students and staff. • Collaborated directly with the university rector to deliver a centralized web platform that enhanced institutional transparency and information dissemination. 		

Education

- Full stack JavaScript Bootcamp, Dumb Ways ID
- Bachelor of Engineering, Sekolah Tinggi Teknologi Jawa Barat
- Vocational HS in Software Engineering, SMK Bhakti Nusantara 666

Skills

- **Front-End:** Javascript, Typescript, React.js, Vue.js, Next.js, Redux, React Query, React Hooks, Shadcn UI, Axios, and Micro-Frontend Architecture
- **Mobile Development:** React Native

- **Styling / CSS Frameworks:** Tailwind CSS, SCSS, and Emotion
- **Back-End:** Node.js, Express.js, PHP, Laravel, and JWT (JSON Web Token)
- **Testing:** Jest, React Testing Library, Enzyme
- **Documentation:** Storybook, README.md, and Notion
- **Tools:** Jenkins and SonarQube
- **Collaboration & Workflow:** Jira and Agile Methodology
- **Design & Prototyping:** Figma and Adobe Photoshop
- **Version Control:** Git, GitLab, and GitHub

Pijar Sekolah | Technical Highlight

- Migrated project from monolith to **micro frontend architecture**, with new features built using **Next.js** and **shadcn/ui** for improved scalability.
- Continuously adopted the latest technologies: upgraded **Tailwind CSS (v1 → v3)**, **Webpack (v4 → v5)**, and migrated from **Enzyme** to **React Testing Library** without breaking production code.
- maintain unit testing at **80%** to comply with **SonarQube** standards, ensuring production-readiness.
- Promoted to **project lead** and became **maintainer**, responsible for overall code quality and release stability.
- Successfully deployed production build via **CI/CD pipeline using Jenkins**, fixed critical bugs identified by SonarQube under tight deadlines before major releases achieving **SonarQube A-score**.
- Integrated **Firebase** for real-time chat and notifications, significantly reducing latency and improving user engagement.
- Implemented a validation function to **detect and reject malicious JavaScript injection attempts** embedded within uploaded PDF files.
- Developed interactive charts using **React ApexChart**, with proper handling of edge cases such as empty states, large datasets, and dynamic resizing.
- Applied performance optimizations: **lazy loading**, **image format conversion to WebP**.
- Leveraged tools like **ESLint** to detect bottlenecks and fine-tune performance.
- Implemented **Google Analytics (GA)** and **Microsoft clarity heatmap**, providing the operational team with insights to enhance promotional strategies, and improving the visibility of platform usage metrics.