

# Edlan Kuo

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## Software Engineer

Full-stack Software Engineer specializing in the JavaScript/TypeScript ecosystem with hands-on experience building and scaling applications using React, Next.js, Node.js/NestJS, Prisma, and PostgreSQL. Skilled in designing and implementing maintainable, testable, and scalable solutions while collaborating with cross-functional teams to deliver user-focused features. Known for taking ownership of projects end-to-end from system design and API development to frontend UI/UX and applying best practices through code reviews, clean architecture, and modern tooling.

## PROFESSIONAL EXPERIENCE

### Software Engineer | Digital Uprising LLC, Austin, TX

12/2024 – Present

- Spearheaded the software development life cycle (SDLC) for an internal account management platform using Next.js, NestJS, Tailwind Cascading Style Sheets (TailwindCSS), and Prisma, streamlining company-wide operations and reducing average account downtime by up to 90%, saving clients thousands of dollars per hour in preserved ad spend.
- Integrated automated data lifecycle management by configuring cron jobs to purge one-month-old one-time password (OTP) messages, freeing database resources, minimizing manual intervention, and maintaining a lean, scalable data architecture.
- Established a structured GitHub branching strategy to enforce environment separation across development, staging, and production through trunk based development (TBD), enhancing code quality, reducing release defects, and aligning with software engineering best practices.
- Built a secure real-time messaging system by refactoring direct database subscriptions into server-sent events (SSE) with client-side cache updates, improving delivery speed, eliminating redundant application programming interface (API) calls.
- Engineered and deployed a responsive team portal user interface (UI) with React and TailwindCSS, leveraging reusable component-based architecture to deliver intuitive search, tagging, and account management features.

### Software Engineer | Formosa Plastics Corporation, Point Comfort, TX

06/2024 – 12/2024

- Redesigned and migrated the department intranet site from Joomla to React, improving user experience (UX) and simplifying maintenance by integrating a content management system (CMS) that enabled non-developers to perform updates.
- Enabled secure user authentication by integrating Security Assertion Markup Language (SAML) with Microsoft Active Directory (AD), reducing unauthorized access in change request form submissions by 30% and strengthening compliance.
- Developed a mobile safety accountability application using React Native for 500+ employees, enabling real-time personnel tracking during emergencies, enhancing workplace safety standards, and reducing response times by 40%.
- Streamlined the standard operating procedure (SOP) management system by implementing a type-to-search feature, allowing document retrieval by name instead of document number, reducing search time by 75% and improving efficiency.

## PROJECTS

### IntelliCourse.AI | TypeScript, Next.js, TailwindCSS, Nest.js, Prisma ORM, Supabase

2024 – Present

- Developed a full-stack software-as-a-service (SaaS) learning platform that utilized artificial intelligence (AI) to dynamically generate structured course roadmaps with chapters and subunits, enabling users to efficiently learn new topics.
- Integrated OpenAI with YouTube application programming interface (API) to query and deliver the most relevant instructional videos per chapter, automatically generating video summaries and quizzes that reinforced comprehension.
- Migrated backend architecture from a monolithic service to a standalone NestJS application, optimizing system performance, reducing course content generation time by 50%, and enhancing scalability for future feature expansion.

### Lingua | TypeScript, Nest.js, React Native Expo, Prisma, Supabase/PostgreSQL

2024 – Present

- Pioneered software engineering for full-stack mobile chat application using AI to deliver real-time natural language translations, enabling users to communicate in their native languages and improving multilingual accessibility.
- Implemented real-time messaging functionality with WebSocket protocol and client-side optimistic updates, ensuring low-latency, seamless chat experiences and improving user satisfaction with robust, responsive communication features.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, SQL

**Frameworks & Tools:** Next.js, React, React Native (Expo), NestJS, Prisma, Drizzle, TailwindCSS

**Databases & Cloud:** PostgreSQL, Supabase, Firebase, Google Cloud Platform (GCP), Terraform

## EDUCATION

**Certificate of Professional Full Stack Software Development**, Alchemy Code Lab

**Bachelor of Science (BS) in Hotel Restaurant Management**, University of Houston