# Alex Jin

## Software Engineer & OSS Enthusiast

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## SUMMARY

Experienced **Full-Stack Engineer with 9+ years of experience** designing and delivering scalable, high-performance web platforms across **publishing, e-commerce, IoT, and travel-tech** domains. Skilled in architecting microservice-based and modular monolith systems using **Node.js**, **Nest.js**, **Spring Boot**, and **AWS / GCP** cloud infrastructure. Adept at building rich, performant frontends with **React**, **Next.js**, and TypeScript, and integrating AI-powered features using **LangChain** and OpenAI API. Proven track record of contributing to **$4M+ revenue growth** through performance optimization, conversion improvements, and user-centric product development. Passionate about **contributing to open source**, creating maintainable codebases, mentoring teams, and shaping robust product architectures that bridge elegant UX with reliable backend engineering.

## SKILLS

- **PROGRAMMING LANGUAGES:** JavaScript | TypeScript | Python | Java | Ruby
- **FRAMEWORKS & LIBRARIES:** React | Next.js | Angular | React Native | NestJS | Express | Fastify | Spring Boot | Ruby On Rails | GraphQL | Slate.js | Redux | Zustand | Jotai | Tailwind CSS
- **CLOUD & CONTAINERS:** AWS | GCP | Vercel | Heroku | Docker | Hasura
- **DATA & MESSAGING:** PostgreSQL | MySQL | MongoDB | DynamoDB | Redis | Elasticsearch | Amazon SNS, SQS | Google Pub/Sub, Cloud Tasks | Upstash
- **TEST & CI/CD:** Jest | Cypress | Playwright | Mocha | TDD | Unit & e2e Testing | GitHub Actions
- **TOOLS & PLATFORMS:** Git | Figma | Headless CMS | Agile | Scrum | Team Leadership
- **AI & MACHINE LEARNING:** LangChain | LLM Integrations(OpenAI)

## PROFESSIONAL EXPERIENCE

**Full Stack Engineer**
Publi LLC                                                                                          Aug 2022 – Present

- Designed and implemented microservice-based publishing architecture using Nest.js on Google Cloud Run, integrating TypeORM, PostgreSQL, and Upstash Redis/QStash for scalable content delivery and background job orchestration
- Built an AI-powered editorial experience with LangChain and OpenAI API, enabling auto-summarization, SEO tag generation, and writing assistance within the editor
- Developed a Slate.js-based WYSIWYG content editor in Next.js/React/TypeScript, supporting drag-and-drop blocks, embedded media, and collaborative editing with real-time state persistence

- Engineered NextAuth-based authentication with multi-tenant access control, supporting team workspaces, domain-restricted publications, and OAuth providers
- Leveraged Upstash QStash and Google Cloud Tasks for distributed task scheduling, ensuring reliable delivery of async jobs like AI processing, content indexing, and webhook notifications
- Deployed and optimized the platform on Vercel and Google Cloud Run, achieving high performance and zero-downtime CI/CD using environment-aware build pipelines
- Established component-driven UI architecture with Tailwind CSS and design tokens for branded, responsive, and accessible digital publications used by multiple editorial teams

### Full Stack Engineer

GonnaOrder B.V.                                                                                        Jun 2020 – Aug 2022

- Architected a modular monolith in Spring Boot powering a multi-tenant online ordering and order-management platform **adopted by 600+ merchants across 15+ European countries**
- Designed and deployed REST APIs and a PostgreSQL (RDS) data layer with tenant-based isolation and auditing, hosted on AWS Elastic Beanstalk with blue/green deployments and automated CI/CD using GitHub Actions, reducing release time by ~60%
- Developed and maintained the web, mobile, and desktop apps for merchants using Angular 8+, and Ionic, implementing WebSocket-based real-time communication to instantly deliver new order alerts and trigger automatic receipt printing on connected devices
- Implemented asynchronous, event-driven communication between internal modules using Amazon SNS and SQS, improving reliability of background tasks such as order notifications and third-party integrations, and increasing system resilience under load
- Managed Secrets Manager and CloudFormation for secure, reproducible infrastructure; leveraged CloudWatch dashboards and alerts that reduced incident response time by ~40%

### Senior Frontend Engineer

Home Tech Innovation, Inc.                                                                    Mar 2018 – Apr 2020

- Led the development of Suvie's marketing and meal-planner apps (Next.js PWA) serving 10K+ daily active users, driving **$2M+ in annual recurring revenue growth** through subscription-based meal services
- Optimized SEO, performance, and WCAG 2.1 accessibility, increasing organic traffic by 30% and reducing page load time by 25% through Core Web Vitals enhancements
- Collaborated with design and marketing teams on A/B testing of tailored brochure versions for specific user segments, analyzed performance using GA4 and GTM, and delivered a ~20% increase in conversion rate and user retention
- Spearheaded the development of Suvie's mobile app using React Native, Expo, and AWS IoT SDK providing a seamless UX for real-time smart-oven management
- Partnered with backend engineers using Rails, Solidus, and Hasura to design scalable data models and role-based GraphQL APIs, reducing API development time by 60% and cutting latency by 30%
- Established automated code-quality checks using ESLint, Prettier, and GitHub Actions, and implemented comprehensive unit and e2e testing with Jest and Cypress to ensure reliable, maintainable releases; mentored two frontend engineers on these workflows and best practices in code review and CI/CD

**Frontend Engineer**

Sweet Inn                                                                                          Feb 2016 – Mar 2018

- Rebuilt Sweet Inn's booking platform to support its hybrid "apartment + hotel" model, adding new modules for personalized stay customization, contactless check-in via smart locks, integrated customer-service chat, and dynamic pricing—boosting booking conversion by 22%.
- Designed and implemented a modular, responsive UI system using React, Next.js, and Styled Components, ensuring cross-device consistency across 5+ international markets (Paris, Tel Aviv, Barcelona, Rome, London).
- Integrated Apollo GraphQL and Redux to deliver real-time property and pricing data for 1,000+ listings, improving responsiveness and data integrity between client and backend services.
- Enhanced performance with route-level code-splitting, image lazy-loading, and caching optimizations, reducing page-load time by 35% and improving Lighthouse SEO scores.
- Practiced full Test-Driven Development (TDD) using Jest, Mocha, Enzyme, and Cypress, achieving comprehensive coverage across unit, integration, and end-to-end testing flows.

# OPEN-SOURCE CONTRIBUTIONS

**[TinaCMS](https://tina.io)**

https://tina.io                                                                                              2022 – 2023

- Collaborated with the core team to maintain TinaCMS, an open-source Git-backed headless CMS with 13K+ GitHub stars.
- Implemented new features and integrations, authored technical documentation, and resolved community-reported issues to improve stability and developer experience.
- Assisted with customer onboarding and technical migration from Forestry to TinaCMS (including enterprise clients like Smashing Magazine).

# EDUCATION

**Bachelor's Degree in Computer Science (Engineering)**

Fudan University                                                                                          2010 – 2014