

Lin Jing An

Senior Software Engineer

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PROFILE

Senior Full Stack Engineer with 9+ years of experience delivering end-to-end products across frontend, backend, AI, and cloud infrastructure. Builds responsive React, Next.js, and TypeScript experiences with reusable component architecture, and scalable APIs using Node.js, NestJS, Express.js, Java, and Spring Boot. Strong in API integration, relational and NoSQL data, performance, authentication, automated testing, and CI/CD. Brings deep Java expertise for enterprise microservices while also shipping production AI features with OpenAI, LangChain, LlamaIndex, RAG, and vector databases.

EDUCATION

Bachelor's degree / Computer Science, 05/2014 – 09/2018 | Singapore
National University of Singapore

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Adventus 10/2024 – 09/2025

- Developed responsive React and Next.js applications with TypeScript, reusable components, modern routing, and mobile-first layouts.
- Built Node.js and NestJS services with secure REST and GraphQL APIs, PostgreSQL, Redis, validation, and structured error handling.
- Delivered Java and Spring Boot microservices using Spring MVC, Spring Data JPA, and Hibernate for business-critical workflows.
- Engineered RAG search automation with OpenAI, LangChain, LlamaIndex, Pinecone, and pgvector, cutting search time by 40%.
- Connected frontend and backend flows with OAuth2, JWT, automated tests, and reliable error handling, reducing integration defects by 50%.
- Automated Docker deployments to AWS and Kubernetes with Jenkins and GitHub Actions, reducing deployment time by 35%.

Senior Full Stack Developer, Tech Grid Asia 03/2022 – 08/2024

- Delivered React and Next.js applications supporting 10K+ concurrent users at 99.9% uptime across responsive desktop and mobile experiences.
- Created reusable TypeScript components for authentication, routing, validation, and REST/GraphQL APIs, cutting development time by 30%.
- Designed Node.js and NestJS services with secure REST and GraphQL APIs backed by PostgreSQL and MongoDB.
- Constructed Java microservices with Spring Boot, Spring MVC, JPA, Hibernate, and Redis, increasing throughput by 35%.
- Optimized SQL queries, persistence workflows, service execution paths, and caching, reducing backend response latency by 30%.
- Integrated OpenAI and LangChain into backend services for intelligent search, reducing manual workflow time by 30%.
- Established Docker/Kubernetes CI/CD pipelines and automated tests, cutting release cycles by 80% and mentoring the team.

Full Stack Web Developer, TeamDev Ltd. 04/2020 – 11/2021

- Standardized reusable React, Next.js, and TypeScript components for responsive layouts, reducing duplicated UI code by 35%.
- Built Node.js, NestJS, and Express.js APIs with PostgreSQL and MongoDB, including validation, error handling, and frontend integration.
- Deployed Java and Spring Boot services with strong typing, persistence, and integration tests, reducing production defects by 30%.
- Collaborated with design, QA, and product teams on feature delivery and production support, reducing release delays by 25%.

Full Stack Application Developer, FiveStones 11/2018 – 02/2020

- Led development of responsive React and Next.js applications with reusable components and APIs, serving 20K+ active users.
- Developed Node.js and Express.js REST APIs backed by PostgreSQL and MongoDB for client-facing product workflows.
- Secured enterprise workflows with Java and Spring Boot services, reducing transaction failures by 25%.
- Implemented OAuth2 and JWT authentication across user-facing transactions, strengthening API security and access control.
- Improved AWS deployment reliability using Docker and CI/CD pipelines, reducing failures by 30%.

SKILLS

Frontend

React | Next.js | TypeScript | JavaScript (ES6+) | React Hooks | Component Architecture | Angular | Tailwind CSS | HTML5 | CSS3

AI & Automation

OpenAI API | LangChain | LlamaIndex | RAG | LLM Integrations | Vector Search | Pinecone | pgvector

Cloud & DevOps

AWS | Azure | Docker | Kubernetes | Jenkins | GitHub Actions | CI/CD

Backend

Java | Spring Boot | Spring MVC | Spring Data JPA | Hibernate | Node.js | NestJS | Express.js | REST APIs | GraphQL | WebSockets | Microservices

Databases & Caching

PostgreSQL | MySQL | MongoDB | Redis | Firebase | Supabase

Architecture, Security & Quality

OAuth2 | JWT | RBAC | API Security | Unit Testing | Integration Testing | Performance Optimization