Jason Anak Rolls

Full Stack Developer

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SUMMARY

Senior Full Stack Developer with 9 years of experience building scalable, AI-driven software solutions in Fintech, Healthcare, Edtech, and Web3. Specialized in React, React Native, Next.js, Node.js, Express.js, Nest.js, TypeScript, Python, Angular, and Laravel. Extensive expertise in event-driven microservices, serverless cloud architecture (AWS/GCP), GraphQL APIs and OpenAI-powered AI integrations. Proven track record of delivering secure, high-performance platforms for global clients and leading distributed teams to success.

WORK EXPERIENCE

Software Engineer, *Rocketech*
04/2022 – Present
San Francisco, CA

- Designed and deployed Fintech trading platforms using Next.js + TypeScript frontend and Nest.js microservices backend.
- Implemented event-driven workflows on AWS (Lambda, SQS, DynamoDB, API Gateway) handling 1M+ daily transactions with sub-200ms response times.
- Integrated AI-driven analytics modules via OpenAI GPT APIs, improving predictive insights and boosting user engagement metrics by 30%.
- Led migration from a monolithic healthcare platform to AWS serverless architecture, reducing infrastructure costs by 25%.
- Consolidated multiple legacy APIs into a GraphQL gateway (Apollo), streamlining integrations for web/mobile clients.

Full Stack Engineer, *Empat*
07/2020 – 02/2022
San Francisco, CA

- Built Healthtech SaaS applications with React (Next.js) + Express.js + MongoDB, ensuring HIPAA compliance for sensitive medical data.
- Engineered AI-powered symptom triage chatbot using Python (FastAPI) + OpenAI APIs, reducing patient response time by 0%.
- Scaled REST + GraphQL APIs to handle 200K+ daily requests, implementing caching strategies with Redis.
- Developed real-time notification system via WebSockets, enabling live doctor-patient interactions.
- Automated deployments with AWS ECS + Terraform, ensuring reliable scaling and reproducible environments.

Full Stack Developer, *Vention*
04/2018 – 06/2020
San Francisco, CA

- Contributed to Fintech and Web3 projects, building Angular + Laravel applications with smart contract integrations.
- Optimized backend APIs with Laravel + MySQL, reducing average query response times by 30%.
- Implemented payment gateway integrations (Stripe, PayPal) for Fintech clients.
- Gained early experience with Docker containerization and CI/CD pipelines for deployment automation.
- Collaborated in Agile/Scrum teams, learning best practices for code reviews, Git workflows, and scalable deployments.

Junior Full-Stack Developer, *NextZen Minds*

01/2016 – 03/2018
Singapore, Singapore

- Assisted in building Edtech SaaS applications with React + Redux on the frontend and Node.js + PostgreSQL on the backend.
- Supported development of React Native mobile apps with offline-first capability, deployed on both iOS and Android.
- Implemented role-based authentication with JWT/OAuth2 and integrated GraphQL APIs for scalable data access.
- Contributed to microservice deployments using Docker + Kubernetes on GCP.
- Collaborated with senior engineers to optimize system design and improve API performance.

EDUCATION

Bachelor of Science, *National University of Singapore*

08/2016 – 05/2020
Singapore, Singapore

SKILLS

Programming Languages
HTML5, CSS, Javascript, Typescript, SQL, Python

Backend Technologies
Node.js, Express.js, Nest.js, Django, Laravel

Cloud & DevOps Tools
Git, GitHub, AWS, Azure DevOps, Docker, Kubernetes, Terraform

Frontend Technologies
React, React Native, Next.js, Angular, Redux, Tailwind, Material UI

Data & APIs
REST API, GraphQL, PostgreSQL, MongoDB, Redis