

Ng Guoyou

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EXPERIENCE **BASIS AI (acquired by AICADIUM)**

Software Engineer, Singapore, Jan 2019–Oct 2020, Jun 2021–Present

TypeScript, Python, Rust, Webpack, React, Redux, Docker, Kubernetes, UX

Employee #3. Full stack developer on a [machine learning platform](#) for training and deployment of data science workloads. Main contributor to frontend with Webpack, TypeScript, React+Redux. Created reusable React component library. Built performant client workload monitor in async Rust; includes streaming ZIP and large file uploads. Developed backend features in Python such as pagination and RBAC. Implemented Docker image caching for fast workloads using [kaniko](#). Implemented company website [basis-ai.com](#) in Next.js. Set up agile environment and processes. Conducted basic UX research and user testing. Built product PoCs around CV and ML.

CREDIT SUISSE

Software Engineer, Singapore, Nov 2020–Jun 2021

TypeScript, React, Redux, MobX, Webpack

Maintained and implemented features for internal financial applications and platforms around securities order placement, disclosures, and tracking. Modernised and refactored legacy frontend applications.

GOVTECH (GOVERNMENT TECHNOLOGY AGENCY)

Software Engineer, Singapore, Jan 2016–Jan 2019

GoBusiness Licensing guided journey, government licenses portal

2019. TypeScript, React, Redux, Kotlin, Spring Boot

Part of initial team. Bootstrapped project and implemented features for F&B licensing.

www.mycareersfuture.sg, job portal

2018. Node, TypeScript, JavaScript, React, Redux

Implemented frontend features for MyCareersFuture. Orchestrated transition to TypeScript across the team. Bootstrapped greenfield employer module with TypeScript.

opencerts.io, academic qualification verifier

2018. Ethereum, Parity, Solidity, JavaScript, TypeScript, React, Redux

Created tools to bulk-register academic transcripts on Ethereum and interact with smart contracts in Node, TypeScript and React.

Data ingestion validator, API endpoint, and data visualisation application

2017. Rust, Python, Flask, JavaScript, React, Redux

Optimised data ingestion time by 50× over Python implementation using Rust. Developed front-end application for geographic data from scratch with IE11 support.

www.businessgrants.gov.sg, grant application and tracking portal

2016. Ruby on Rails, React, Redux

Implemented features for and fixed bugs on forms with complex validation logic. Integrated with SAML. Introduced linting for Ruby and JavaScript on large codebase.

ROOMORAMA

Intern, Software Engineer, Singapore, May 2013–Aug 2013

Built a business intelligence dashboard in Ruby and CoffeeScript. Worked on the main Ruby On Rails application implementing features and bug fixes.

EDUCATION

Bachelor of Computing (Communications & Media) Hons.

National University of Singapore, 2011–2015

UX, HCI, and computer graphics focus

PERSONAL

Singapore citizen. Native English and Mandarin Chinese speaker.

- Toy audio synthesizer library in Rust with MIDI support and WebAssembly interface
- Retro image filtering application in React and Redux
- Parallel raytracer with basic animations in Rust
- Browser extension for organising downloads with >3000 users
- Chatbot for IRC, Slack, Discord in Ruby with a plugin system
- Sharing sessions and presentations

More projects on [GitHub](#).