

Ng Guoyou

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KEYWORDS Work experience with TypeScript, Rust, Python, JavaScript, Node.js, Ruby, HTML, CSS, Docker, React, Redux, Webpack, Photoshop, Illustrator, Agile, user testing

EXPERIENCE **CREDIT SUISSE**

Software Engineer, Singapore, Nov 2020–Jun 2021

TypeScript, React, Redux, Webpack

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

BASIS AI (BASIS TECHNOLOGIES PTE. LTD.)

Software Engineer, Singapore, Jan 2019–Oct 2020

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

Employee #3 and engineer on Bedrock, a machine-learning platform for training and deployment. Bootstrapped frontend with Webpack, TypeScript, React+Redux and implemented large parts of it, including charts and network visualisations. Created reusable React component library. Built performant client workload monitor in async Rust; includes streaming ZIP and large file uploads. Created pagination on REST queries for Python/SQLAlchemy. Implemented Docker image caching for fast workloads using [kaniko](#). Implemented company website [basis-ai.com](#) in Next.js. Set up agile environment and processes. Pushed for and conducted UX user testing as needed.

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](#)
- [Parallel raytracer with basic animations in Rust](#)
- [Retro image filtering application in React and Redux](#)
- [Browser extension for organising downloads with \$\approx 3000\$ users](#)
- [Sharing sessions and presentations from work](#)