

# Ng Guoyou

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[ng.guoyou@gmail.com](mailto:ng.guoyou@gmail.com) [github.com/gyng](https://github.com/gyng)

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

**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. Developed Bedrock, a machine-learning platform for training and deployment. Main contributor to and bootstrapped 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. Pushed for and conducted UI and UX user testing. Built product PoCs, including a Flutter mobile application.

**CREDIT SUISSE**

**Software Engineer**, Singapore, Nov 2020–Jun 2021

*TypeScript, React, Redux, 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](#)