Ng Guoyou

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SKILLS

Work experience with JavaScript, Rust, Ruby, Python, HTML, CSS, React, Redux

Some experience with Java, Docker, Photoshop

Native English and Mandarin Chinese speaker

EXPERIENCE

GOVERNMENT TECHNOLOGY AGENCY
Software Engineer, Singapore, 2016–Current
Working as a full-stack software developer on public projects of varying sizes in an agile environment. Projects worked on include:

https://www.businessgrants.gov.sg, a grant application and tracking portal
Ruby on Rails, React, Redux
Introduced and implemented CI-enforced linting for Ruby and JavaScript on existing codebase. Upgraded Ruby on Rails from 4 to 5. Implemented features for and fixed bugs on forms with complex validation logic.

Data ingestion validator, API endpoint, and data visualisation application
Rust, Python, Flask, React, Redux, webpack, Docker
Optimised data ingestion time by 5× over pre-existing implementation. Improved API server codebase by writing tests, adding linting, and cleaning up API. Developed front-end visualisation from scratch with IE11 support.

ROOMORAMA
Intern, Software Developer, Singapore, May–August 2013
Built a business statistics dashboard in Ruby and CoffeeScript to aid decision-making. 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

PERSONAL

A partial list of personal projects:
- Simple HTTP monitoring tool with email alerts and dashboard in Rust
- Toy audio synthesizer library in Rust
- Parallel raytracer with basic animation in Rust
- Cuesheet reader library in Rust
- Microsoft Comic Chat clone in Node.js
- File-based JSON JavaScript frontend for presentation of lists
- Fully-featured IRC and Slack bot with plugin functionality in Ruby
- JavaScript game engine with upgrade system using JavaScript and HTML5
- https://github.com/gyng/book/ – sharing sessions and presentations from work

Source code and demo sites for these are available on GitHub. An overview of selected projects is available https://gyng.github.io/projects.