Ng Guoyou

ng.guoyou@gmail.com https://github.com/gyng

KEYWORDS

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

Native English and Mandarin Chinese speaker

EDUCATION

Bachelor of Computing (Communications & Media) Hons.
National University of Singapore
2011–2015

EXPERIENCE

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

https://www.businessgrants.gov.sg, a grant application and tracking portal
2016. Ruby on Rails, React, Redux
Introduced and implemented CI-enforced linting for Ruby and JavaScript on existing code. Implemented features for and fixed bugs on forms with complex validation logic.

Data ingestion validator, API endpoint, and data visualisation application
2017. Rust, Python, Flask, JavaScript, React, Redux, Webpack, Docker
Optimised data ingestion time by $5\times$ over pre-existing implementation. Improved API server codebase by writing tests, adding linting, and cleaning up API. Developed interactive front-end visualisation from scratch with IE11 support.

Blockchain proof-of-concept projects
Early 2018. Ethereum, Parity, Solidity, JavaScript, TypeScript, React, Redux, Docker
Wrote and deployed simple smart contracts for certificate issuance and content registration on Ethereum. Created tools and applications to interact with these smart contracts.

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.

PERSONAL

- Toy audio synthesizer library in Rust
- Parallel raytracer with basic animation in Rust
- Cuesheet reader library in Rust
- Retro image filtering application in React and Redux
- Fully-featured IRC and Slack bot with plugin functionality in Ruby
- Browser extension for organising downloads
- Sharing sessions and presentations from work

Source code and demos available on GitHub. Overview available https://gyng.github.io/projects.