Ng Guoyou

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EDUCATION

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

SKILLS

Comfortable with Ruby, JavaScript, Java, HTML, CSS

Some experience with Rust, C, Python, Ruby On Rails, Android, Git, Photoshop, Illustrator.

Native English and Mandarin Chinese speaker.

EXPERIENCE

Government Digital Service, **Infocomm Authority of Singapore**
Associate Consultant, 2016–Current
Working as a full-stack software developer on public projects of varying size in an agile environment. Technologies used include, but not limited to: Ruby, Ruby on Rails, JavaScript, and React. The current project is the development of a Ruby on Rails with React business grant portal.

Roomorama
Software Developer Intern, 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, including a locale-aware ElasticSearch implementation for room listings and third-party inventory integration.

Freelance
Web Designer, 2012–2014
Worked with several clients on short-term jobs to design and implement web designs as a freelance contractor. Used HTML, CSS and JavaScript for frontend projects. Interacted with clients to fulfill their business requirements. Amount of design ranged from created-from-scratch to adaptations of existing designs for the web.

PROJECTS

A partial list of personal projects:

- Parallel raytracer with basic animation and a physically-based material shader in Rust
- Toy audio synthesizer library in Rust
- Location-based augmented reality Android app and Ruby backend for ship identification
- Microsoft Comic Chat clone in Node.js
- JSON-based JavaScript frontend application with a Ruby backend for presentation of lists
- Fully-featured IRC bot with plugin functionality in Ruby
- JavaScript game engine with upgrade system using JavaScript and HTML5
- Desktop expense tracker in Java with JavaFX

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