

簡煒航 Weihang Jian

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Highlights of Technical Career

- Book Author - **Ruby on Rails 自習手冊：邁向鐵道工人之路 (Ruby on Rails: the Beginner's Guide)**. DrMaster Press. 2015. ISBN: 9789862019948
- Software Author - **TJDict**, an online dictionary browser extension with more than 20k active users.
- Software Author - **jaro_winkler**, a Ruby gem utilized by Ruby since v2.3. This implementation of the Jaro-Winkler distance algorithm has more than 30k dependents, including `rubocop`, `did_you_mean`, `solargraph`, and `roma`.
- Award - **Championship**. Yahoo Hack Taiwan, 2013
- Presentation - **Improve Cookie-based Session with Decorator Pattern**. Confoo. Mar 2018. Montreal, Canada
- Presentation - **An Introduction of Interator Pattern in Ruby**. Confoo. Mar 2018. Montreal, Canada
- Presentation - **Integrate Gulp with Rails and Make Front-End Developers' Lives Easier**. RubyConf Taiwan. Sep 2015. Taipei, Taiwan
- Presentation - **Write Your C Extension for Ruby**. ConFoo. Feb 2015. Montreal, Canada
- Presentation - **Streaming Processing in Camera Remote API**. Ruby Kaigi. Sep 2014. Tokyo, Japan
- Presentation - **Build the Admin Panel with Rails Scaffold Generator**. RubyConf Taiwan. Apr 2014. Taipei, Taiwan

Skills

- **Language** - Mandarin (native), English (advanced)
- **Programming** - Ruby, C, Rust, JavaScript, sh, bash
- **Frontend** - CSS, React, Progressive Web App, Browser Extension
- **Backend** - Ruby on Rails, Hanami, Sinatra, Rack, C Extension for Ruby
- **DevOps** - Docker, Kubernetes, Chef, Capistrano
- **Operating Systems** - Alpine, Ubuntu, FreeBSD
- **Knowledge** - Network Programming, Information Retrieval

Experience

roundTAIWANround, Taipei - Tech Lead/Senior Full-Stack Software Engineer

APR 2017 - APR 2020

- Established coding rules, workflows, and DevOps for better productivity
- Upgraded Rails application from v3 to v6
- Built a universal JS application using the self-made MVC framework
- Implemented and optimized the Held-Karp algorithm in Ruby to solve the traveling salesman problem of transportation scheduling

Ziltag, Taipei - CTO

APR 2015 - APR 2017

- Headed the engineering team to make technical decisions related to algorithm, design pattern, and architecture
- Implemented core APIs to support users to make comments and engage in conversations on specific areas of images
- Introduced Docker and Chef to split the server into multiple microservices and make infrastructure configuration management more efficient

5xruby, Taipei - Founder

APR 2014 - DEC 2014

- Conducted advanced Ruby on Rails courses and workshops for engineers from Chunghwa Telecom Co., Ltd. and students majoring in computer science and information engineering
- Prepared and delivered lecture materials, tutorial screencasts and wrote a book on topic of Ruby on Rails for self-learners
- Provided training for staff and teachers about coding conventions

Brainana, Taipei - Founder

SEP 2013 - JAN 2016

- Built customized business official websites and product landing pages using Ruby on Rails
- Conducted requirements analysis to compose UML and ERDs
- Designed and initiated a remote collaborative approach to share in the implementation of solutions with stakeholders efficiently

Industrial Technology Research Institute, Hsinchu - Software Engineer

JAN 2012 - DEC 2013

- Assisted the Green Energy and Environment Research Laboratory researchers in software development
- Built an online tool of building energy simulation with EnergyPlus, Ruby on Rails, and MongoDB

Education

Computer Science, National Chiao Tung University, Taiwan - Bachelor

SEP 2008 - JAN 2013