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 built using ReactJS and having 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

- Langauge 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