SHAOJIANG CAI

PERSONAL INFORMATION

- Nationality: Chinese
- Gender: Male
- Birthday: July 26, 1985
- Mobile number: (+86) 13860897706
- Email: caishaojiang@gmail.com
- Portfolio: http://front-end.io, StackOverflow, GitHub

HIGHLIGHTS

- 6 years of professional experience in front-end development. Comprehensive understandings in HTML5, CSS3, Node.js and ES6.
- Proficient in React, React Redux, Angular, D3, webpack and gulp. Write test cases in Jest and Enzyme. Extensive experiences in Scrum, Docker, Less and CSS modules, Mercurial/Git, and Chrome/FireFox extensions.
- Familiar with libraries including lodash, mobx, bootstrap, material-ui and semantic-ui.
- A front-end enthusiast, StackOverflow reviewer and GitHub fan.
- Familiar with responsive design and RESTful applications.
- Familiar with C, Java and Python.
- A team player, passionate coder and very fast learner. Self-motivated and attentive to details.
- An active Toptal freelancing developer for 1.5 years.

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE
Master of Science by research, Information Systems, Aug 2008 - Jul 2011
CAP: 3.78/5.0

RENMIN UNIVERSITY OF CHINA, BEIJING
Bachelor of Engineering, Information System, Sep 2004 - Jul 2008
CAP: 3.44/4.0

EXPERIENCE

FREELANCING FRONT-END DEVELOPER
Toptal.com
May 2016 till present

- Developed the front-end of a cryptocurrency exchange portal XChangeRate, which integrates React-redux, Redux-form, TypeScript and CSS Modules. I architected the front-end from scratch using Webpack 3. Meanwhile, we developed more than 20 reusable React components with great modularity and nice design, including Button, Pagination, Dropdown, Modal, and many more.
- Helped the popular Chrome/Firefox extension PriceBlink to refactor the code and built a new extension PriceBlink-Lite-Chrome from scratch.
- Maintainer of the website of the popular rich editor TinyMCE.

- And many other freelancing projects.

FRONT-END WEB DEVELOPER
European Bioinformatics Institute, Cambridge United Kingdom
Jun 2016 - Jun 2017

- A focused front-end developer of Europe PMC. The application provides 32 million research abstracts and 3.9 million full text papers, serving literature search for millions of users. It is based on Solr, Wicket, jQuery, and HighCharts.js.
- Improved the site performance. Monitor the site usage through tools like Monitis, Kibana and Piwik.
- Involved in some back-end development tasks, which utilizes the Java SpringMVC framework.

FRONT-END DEVELOPER
RingCentral Inc. Xiamen China
Nov 2014 - Jun 2016

- Key front-end developer of Developers Portal Web based on AngularJS 1.x, grunt/gulp, SASS. Trained to follow Scrum agile work flow.
- Responsible for developing most public pages.
- One of the two developers to build the responsive mobile version from scratch. It was in AngularJS and React.
- Dived into the AngularJS source code (v1.4.3) to get better understandings.

BIOINFORMATICS SPECIALIST
Genome Institute of Singapore (GIS, www.gis.a-star.edu.sg)
May 2012 - May 2014

- Main researcher and developer on BASIC project (Browser for Applications in Sequencing and Integrated Comparisons). BASIC is an integrated system to efficiently store, process and visualize large column of Next Generation Sequencing (NGS) data. Responsible for front-end development, which utilizes jQuery UI, D3.js and Bootstrap. Developed unique features including dynamic hierarchical menus, SVG partial drawing and exporting, different visualization modes for 10 complicated bioinformatics formats.
- Individual developer of PETA (Paired End Transcriptome Assembler written in C), a state-of-art *de novo* transcriptome assembler tailored to reconstruct full-length transcripts from large-scale RNA-seq data. Experiments show that it is better than other assemblers in terms of accuracy, continuity, completeness and full-length transcripts.

LANGUAGES

- English: lived in Singapore for 6 years and UK for 1 year; excellent speaking and writing skills
- Chinese: native speaker

SCHOLARSHIPS

- Doctoral Scholarship, National University of Singapore, 2008 - 2012
- National Scholarship, China, 2006

HOBBIES

Good at playing basketball; reading, Chinese chess, swimming.

PUBLICATIONS

- Yao F, ..., Cai S, ..., Hillmer AM. (2015) Recurrent Fusion Genes in Gastric Cancer: CLDN18-ARHGAP26 Induces Loss of Epithelial Integrity. *Cell Report. 12(2) 272-285.*
- Poo, D. C., Cai, S, and Mah, J. T.. (2011) UASIS: Universal Automatic SNP Identification System. *InCoB 2011*; *Journal of BMC Genomics, 12 Suppl 3, S9.* [**Main contributor**]
- Mah, J. T., Poo, D. C., and Cai, S. (2010) UASMAs (Universal Automated SNP Mapping Algorithms): a set of algorithms to instantaneously map SNPs in real time to aid functional SNP discovery. *Proc. VLDB2010 Endow.*, **3(1)**. [**Main contributor**]