

# SHAOJIANG CAI

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## HIGHLIGHTS

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- 10+ years of professional experience in front-end development. An active Toptal freelancing developer for 6 years. Comprehensive understandings in HTML5, CSS3, ES6 and React.
- Proficient in React. Work extensively with React, TypeScript, Next.js, Gatsby, Svelte, Redux, Tailwind, Material-UI and WebSocket. Write test cases in Jest, React Testing Library and Cypress.
- Skilled in responsive design and RESTful. Good understandings of HTTP/HTTPS and TCP/IP.
- A front-end enthusiast, team player and fast learner. Self-motivated and attentive to details.

## EDUCATION

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NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE

Master of Science by research, Information Systems, Aug 2008 - Jul 2011

RENMIN UNIVERSITY OF CHINA, BEIJING

Bachelor of Engineering, Information System, Sep 2004 - Jul 2008

## EXPERIENCE

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### Lead Front-end Developer (hourly, full-time)

Pano AI - Feb 2021 to Sep 2023

- Lead Front-end developer on Pano AI: <https://360.pano.ai>, a wildfire detection and monitoring system.
- Architect the front-end with React, TypeScript, Material-UI, Mobx/Recoil, Tailwind, Mapbox and Axios.
- Setup testing frameworks with Jest, React-testing-library, Cypress and Storybook.
- Monitor front-end performance with Mixpanel, Sentry and Google Tag Manager.
- Develop features of Pano AI 360 front-end, including Image Player, Fire Map, Optical Zoom, API Proxy and Recoil Data Store, etc.
- Build an Image Player in native HTML5 canvas APIs to view large amount of panorama images from different locations. Users are able to pan, zoom in/out, resize, mark fires on the player.

### Senior Freelancing Front-end Developer

Toptal.com - May 2016 till present

Work on a lot of React/Redux projects. Code in React Hooks, TypeScript, Svelte, Saga, Tailwind, Material-UI, WebSocket, Storybook, Cypress, and many more. Projects include:

- Ceffu (Ceffu): core front-end developer.
- Array (Array, Web Components): HTML/CSS team lead.
- Aptiv (nuScenes, DriveLogs, Annotations): principle front-end dev.
- CoinCheckup, TinyMCE, TravelFlan, VisionInterchange and many more.

### Senior Front-end Developer

Bitfinex - Nov 2019 to Mar 2021

- Core developer on Bitfinex main portal.
- Main contributor on Bitfinex Security, eosfinex, Bitfinex Staking).
- Tech in use: React/Redux, Saga, WebSocket

### **Senior Front-end Developer**

European Bioinformatics Institute, Cambridge United Kingdom - Jun 2016 to 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.

### **Front-end Developer**

RingCentral Inc. Xiamen China - Nov 2014 to Jun 2016

- Key front-end developer of Developers Portal Web in AngularJS.
- Bootstrapped the mobile version of Developers Portal Web in React.

### **Bioinformatics Specialist**

Genome Institute of Singapore, A\*star Singapore - May 2012 to May 2014

- Sole Front-end Developer of BASIC(Browser for Applications in Sequencing and Integrated Comparisons), a web-based genome browser for next-generation sequencing data.
- Visualized NGS (Next-Generation Sequencing) data of various data formats.
- Developed internal pipeline PGS (Pipeline for Genome Sequencing) for NGS data analysis used at GIS.

### **ADDITIONAL INFORMATION**

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- Native Chinese speaker, fluent oral English
- Doctoral Scholarship, National University of Singapore, 2008 - 2012
- National Scholarship, China, 2006