

JAMES WANG

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🎓 EDUCATION

University of Melbourne, Melbourne, Australia 2018 – 2021

Master of Computer Science

Central South University, Changsha, Hunan, China 2013 – 2017

B.S. in Electronics Engineering (EE)

👤 INTERN / WORKING EXPERIENCE

Airwallex - Software Engineer May 2022 – Present

- Revamp Corpsite Legal page, read text contents from Contentful.com and generate static site on the server side using next.js.
- Develop Growth Engine for internal marketing team, aiming at user growth. Render frontend via dynamic JSON Schema, parse micro-level backend APIs to service-level GraphQL interfaces.

Tencent - Front End Developer January 2020 – May 2022

- Maintainer of an open-source project - Tencent Cloud Monitor App Plugin for Grafana.
- As a Front End Developer in the Tencent Cloud Monitor Team, I was responsible for developing the internal cloud monitoring system and the official cloud monitor site.
- Cooperate with backend developers, import data log from various data sources (e.g. HTTP / ES / Kafka), implement data visualization and monitoring from log files.
- Develop and bug-fix the internal UI framework - 🍵Tea Design, using React, D3.js and SVG as the programming language.

Royal Melbourne Hospital - Full Stack Developer (Casual) March 2019 – Present

- Mobile Learning Unit was established by the University of Melbourne to interconnect Academics and Researchers with Healthcare Professionals through the delivery of Online Medical Courses, which has more than 10,000 students on our platform.
- As a Full Stack Developer, I am responsible for Phase 2 of the Mobile Learning Management System, implementing core functions and cooperating with the IT team. We use Node.js as our backend, React as the frontend, syncing Salesforce data to Heroku PostgreSQL database, manipulating data with GraphQL and storing tutorial files to Amazon Web Service S3.
- We use Monday.com for Agile development.
- Maintain <https://iteachu.com> by developing WordPress custom themes for marketing use.

Ubisoft Shanghai - Web Developer (Intern) November 2018 – March 2019


- As a web intern in the hungry shark team, I am responsible for developing and optimizing pages in the BI real-time prediction system and segmented monetization core operating system. Reconstruct jQuery to Vue.js, using PHP Smarty template engine for backend, Ruby on Rails for database creation and migration.
- Developed general module components for internal projects, which improves development efficiency, facilitates reuse and simplifies debugging steps.
- At the end of the internship, I obtained an excellent evaluation from my manager.

Hunan Wongxin Hi-tech Co., Ltd. - Software Engineer (Intern) December 2017 – June 2018

- As an intern in the software department, we use Angular JS for front-end development, Spring Boot as the back-end development framework, Spring Data JPA as the data access layer, Hibernate as the data persistence layer. I have contributed 40% of the code for the project, and completed a multi-tenant information management platform.
- Migrated pipeline from company's original Windows Server to Linux Server. Independently responsible for configuring and building a CI/CD pipeline based on Ansible+Docker+Jenkins.

RELEVANT PROJECTS

Open Source Project => vue-hotspot

- Developed an image hotspot component based on Vue, wrote unit test cases and continuous integration scripts.
- For further details please visit:  <https://github.com/jamesxwang/vue-hotspot>

Twitter Big Data Analysis System => Track Hub

- The project crawled 2 million Twitter data from Melbourne over five years to conduct emotional analysis, and displayed real-time crime rate predictions in different geographical locations on front-end webpages, and provided personal activity path tracking.
- In the project, I am mainly responsible for front-end Vue development, software architecture design and automated operation and maintenance.

iOS Recommendation App => EatTogether

- Using Swift 5.1 as the client programming language, Firebase as the application backend, storing user login authorization information, instant messaging, location sharing, object storage, and other backend logics.
- Implemented a multi-sensor, mobile restaurant recommendation based on the user's geographic location.
- For further details please visit: <https://www.youtube.com/watch?v=caja1asWz5g>.

Artificial Intelligence Competition => Pacman

- Ranking: 5/206. The artificial intelligence competition is jointly organized by the University of Melbourne and RMIT University.
- The project adopted the reinforcement learning algorithm (Q-Learning), Monte Carlo Tree search algorithm and A * algorithm to achieve multi-agent's collaborative attack and defense strategy. Successfully reached the top 5 in 206 teams. For specific contest information, please see: <https://sites.google.com/view/pacman-capture-hall-fame/>.
- Use Python as the main programming language.

SKILLS

- Programming Languages: JavaScript > Python == Java > Haskell
- Language: English (Professional), Mandarin (Native Speaker)