

Jay Liu

Web & Mobile App Developer

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Work Experience

React / Ruby on Rails Lead Engineer

Oct 2017 - Sep 2019

[Simple.space \(Space management for enterprises\)](#)

[React Native](#), [SOLID principles](#), [GraphQL](#), [Firebase](#), [React hooks](#), [User training](#), [Mentoring](#)

- Re-written the front-end using React hooks and context API after version 16.8
- Took advantage of react-on-rails for the partial rendering of React components within Rails views
- Transformed flat-designed components to material-based using Material-UI
- Implemented 3 real-time features of the system using Firebase
- Suggested and led the efforts of `Float to Flexbox` layout transformation
- Written specs and ensured 95%+ test coverage for all Ruby on Rails modules and classes
- Applied SOLID principle as the Ruby on Rails design principle, mentored team members on it
- Documented the custom React components using Storybook
- Setup React Native code-base from the scratch
- Implemented GraphQL on top of the micro-services architecture, integrated with React Native app using Apollo
- Trained and pair-programmed with team members on React Native during the last 4 months
- Managed App Store and Google Play Store app submissions
- Conducted regular calls with the clients, trained 4 clients on the usage of the system

React / Ruby on Rails Engineer

Jul 2016 - Aug 2017

[Airstest \(Drone flight management portal\)](#)

[Helped selling the business at a high value](#)

- Developed a flight track player that resembles Youtube video player, with a lot of metrics and meters
- Developed flight area selection tool using Mapbox, available both in 2D and 3D
- Developed a parser module for drone flight log files in Ruby on Rails
- Envisioned and developed flight altitude meter component
- Designed and developed mobile counterparts using React Native
- Established mobile app distribution/deployment flow using Fabric
- Laid out React Native test automation system using Appium
- Enforced a solid debugging system using Reactotron, React Dev Tools and Performance Timeline
- Suggested and built a lite SPA version for demo purpose, used Ant design framework

Lead Developer

Sep 2014 - Jun 2016

[Sigsense Technologies \(Device monitoring dashboard\)](#)

[Helped with the pitch deck and landing 2 rounds of venture funding](#)

- Built the React / Redux front-end from the scratch
- Built the REST API using Ruby on Rails and PostgreSQL from the scratch
- Implemented 9 different types of data visualizations using D3 and Highcharts
- Envisioned and built Machine learning UI that analyses the patterns in device incidents
- Implemented micro-services architecture using Docker's containerization
- Established CI/CD pipeline using CircleCI
- Conducted a research on React SPA testing echo system and setup Jest & Cypress based unit & e2e testing

Jay is

Working hard & Passionate

Avid & Open Communicator

Creative & Innovative

Accepting to Challenges

Welcoming Constructive Criticism

Part of the Team & Team Culture

Self-initiator & Doer

Highly Disciplined

Skills

Javascript



9 years of experience

ReactJS



6 years of experience

Ruby on Rails



6 years of experience

React Native



3 years of experience

Certifications

Network Plus CompTIA

Oracle Database SQL Certified Associate Oracle

Business Writing ExpertRating Inc.

UML2 Professional Object Management Group

Business English Certificate Higher University of Cambridge

Ruby on Rails Developer, contractor May 2014 - Aug 2014

Robot Riot (Online 3D fishing game engine)

Helped the gaming company increase the annual revenue by 8.9%

- Transformed old fishing tournament system to a more engaging one
- Took care of refactoring, test coverage and the error-proof migration of the DB
- Played a pivotal role in defining the technical specifications
- Suggested and exercised TDD for the development of the game engine
- Identified edge cases in game-play and implemented the best solutions
- Established a solid flow of unit testing on large sets of data
- Reduced beta test failures by 85%

Lead Developer Apr 2008 - Oct 2013

Samsung Electronics

Started as an intern in the product development department of Samsung Electronics Busan (Korea) branch, as a result of winning design in People electronics design contest. Took 2 years to become a junior mobile applications engineer. In year 4, got elevated to the role of lead developer overseeing a team of 7 web/mobile developers and 2 designers.

- Translated PSD designs into working UIs on Web and Android platforms
- Developed Single Page Applications using Object-Oriented Javascript, including KnockoutJS and jQuery
- Envisioned and led the development of iOS to Android one-tap files migration software
- Developed highly-visualised consumer behavioural patterns dashboard and reported directly to the department head
- Tested/troubleshooted software, embedded software used in wireless data networking for CDMA/LTE/5G phones, tablets, and wearables
- Worked in a team as well as independently and delivered on aggressive schedules and goals

Education

Engineer's degree in Information Technology 2006 - 2008

NIIT Pune

Bachelor's degree in Computer Engineering, A 2001 - 2005

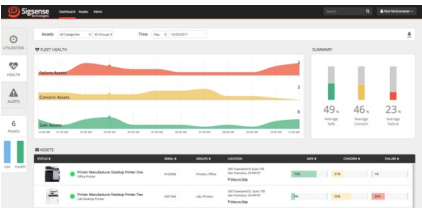
Tsinghua University

Extra-professional experience

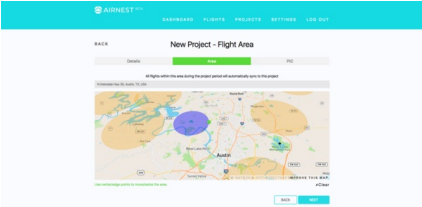
Volunteer 2017 - Present

Friends of Nature

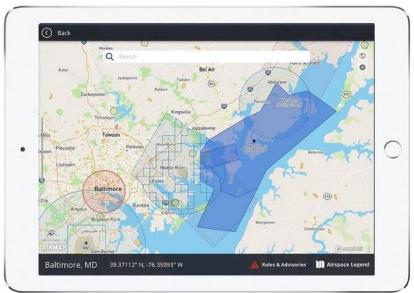
Quick peeks



Device monitoring dashboard



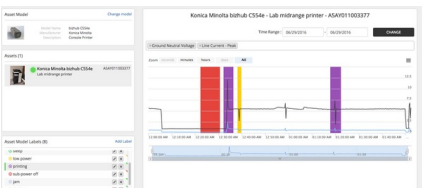
Flight area selection tool



Ground Control (React Native)



Flight track player



Mouse-enabled Interactive Highcharts