

Huicong Jiang

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EDUCATION

University of Washington

Master of Science in Computer Science

Tacoma, WA

Sep. 2020 – Jun. 2022

Brown University

Master of Science in Mechanical Engineering

Providence, RI

Aug. 2018 – May 2020

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, Go, Ruby, MATLAB, C++, Bash, SQL

Web Development: React, Rails, Bootstrap, Node.js, Apache Tomcat, Spring Boot, Elasticsearch

Deployment: AWS, GCP, Git, Docker, Kubernetes, HAProxy, CircleCI, TCP/IP

EXPERIENCE

Software Engineering Intern

The MathWorks Inc

Apr. 2021 – Sep. 2021

Natick, MA

- Refactored an internal infrastructure tool Dashy using the **React**, **Node.js** and **MySQL**
- Dashy is a web application which allows MathWorks staffs collect, browse and demonstrate a range of internal figures in a dashboard. It was originally developed using **Ruby-on-Rails**.
- Used a **session-based SSO authentication** system to handle user login and log-out
- Used **agile**, **scrum** and **Jira** to manage the development

SAP Specialist

State Grid General Aviation Company

Aug. 2013 – May 2016

Beijing, CN

- Established **SAP Material Management** module and **Project Process** module for the company
- Maintained SAP ERP system and trained new SAP users
- Created monthly, seasonal, and annual procurement plan and strategies

PROJECTS

Job+: a job search/recommendation web application (<https://tinyurl.com/jobAround>)

May 2020

- Created three Java servlets with **RESTful** APIs to handle http requests and responses
- Built **MySQL** database on **Amazon RDS** to store job data obtained from Github API
- Designed a **content-based recommendation algorithm** to suggest job opportunities
- Deployed docker containers to **Amazon EC2** to improve scalability

Around: a cloud and React based social network (<https://tinyurl.com/around-app>)

June 2020

- Designed a UI for users to create and browse posts, and to search for nearby posts
- Used **token based authentication** with React Router and server authentication with JWT
- Launched a scalable web service in Go and deployed to **Google App/Kubernetes Engine**
- Used **Elasticsearch** (deployed on Google Compute Engine) to provide search functions

Starlink: a React based Starlink trajectory visualization (<https://tinyurl.com/starlink-track>)

July 2020

- Designed and developed a visualization dashboard using **React** to track satellites in real-time
- Built a form for users to input location, altitude and duration to refine satellite search
- Animated selected satellite paths on a world map using **D3.js** to improve user-friendliness
- Deployed the dashboard to **AWS Amplify** for demonstration

Tinnews: a Tinder-like news Android app

August 2020

- Designed a Tinder-like news app based on Google component architectural **MVVM** pattern
- Utilized Mindorks's **PlaceHolderView** to support swipe gestures for liking/disliking
- Used a light-weight **Room Database** to support local caching and offline viewing
- Integrated **Retrofit** and **RxJava** to pull the latest news data from a RESTful endpoint