

Huicong Jiang

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EDUCATION

University of Washington

Master of Science in Computer Science

Tacoma, WA

Sep. 2020 – Dec. 2021

Brown University

Master of Science in Mechanical Engineering

Providence, RI

Aug. 2018 – May 2020

TECHNICAL SKILLS

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

Web/Mobile Development: React, Node.js, JavaScript/HTML/CSS, Apache Tomcat, Elasticsearch

Deployment: AWS, GCP, Git, Docker, Kubernetes

PROJECTS

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

May 2020

- Developed an interactive web page for users to search and apply for jobs
- 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
- Used MonkeyLearn API to extract keywords from job descriptions
- Designed a **content-based recommendation algorithm** to suggest job opportunities
- Deployed a docker container to **Amazon EC2** to improve scalability

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

June 2020

- Developed a social network web application using **React JS**
- Designed a UI for users to create and browse posts and to search for nearby posts
- Used **token based authentication** with React Router v4 and server-side user authentication with JWT
- Launched a scalable web service in Go to handle posts and deployed to **Google App 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 JS** 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** to improve user-friendliness
- Deployed the dashboard to **AWS Amplify** for demonstration

Tinnews: a Tinder-like news Android app

August 2020 - now

- Designed a Tinder-like news app based on Google component architectural **MVVM** pattern
- Implemented a custom navigation bar using **Android JetPack**
- 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

EXPERIENCE

Graduate Research Assistant

Washington State University

Aug. 2016 – May 2018

Vancouver, WA

- Developed a fast one-dimensional simulation of **inkjet** using MATLAB
- Built a cheap but robust inkjet visualization system with **high speed imaging** technique
- Created an **image processing** pipeline to obtain droplet properties from experimental results
- Presented results at academic conferences and published two **peer-reviewed articles**

SAP Specialist

State Grid General Aviation Company

Aug. 2013 – May 2016

Beijing, China

- Established **SAP Material Management** module and **Project Process** module for the company
- Maintained SAP ERP system and trained new SAP users