

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, MATLAB, C++, Bash, SQL

Web Development: React, Express.js, Bootstrap, Node.js, Tomcat, Spring Boot, Elasticsearch, JUnit

Deployment: AWS, GCP, Git, Docker, Kubernetes, HAProxy, CircleCI

EXPERIENCE

Software Engineer Intern

Google LLC

Jan. 2022 – Apr. 2022

Mountain View, CA

- Tried to re-enable Borg idle power saving to reduce power cost for google's data centers
- Built a plx dashboard monitoring Borg idle machines and Borg idle duration for the whole fleet
- Used turbostat to analyse CPU states and found fearutre Borg idle power saving is redundant
- Increased test coverage and fixed bugs for Borglet Electra and Borglet Powercapping

Software Engineer Intern

VMware Inc

Sep. 2021 – Dec. 2021

Palo Alto, CA

- Developed an API to facilitate edge cluster deletion for the VCF platform using Spring framework
- Designed a workflow to implement the edge cluster deletion API
- Created a series of actions and unit tests for the edge cluster deletion workflow

Software Engineer Intern

The MathWorks Inc

Apr. 2021 – Sep. 2021

Natick, MA

- Refactored an internal web application Dashy using the **React**, **Express.js**, and **MySQL**
- Dashy allows MathWorks staff to collect and demonstrate internal figures in a dashboard
- Used a **session-based SSO authentication** system to handle user login and logout
- Used **agile**, **scrum**, and **Jira** to manage the software development

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 a **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 multimedia posts, and to search for nearby posts
- Used **JWT token-based authentication** to handle login/logout and user rights
- Launched a scalable web service in **Go** and deployed to the **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** 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