

# Ruxin Qu

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Github: <https://github.com/RuxinQu> | Portfolio: <https://ruxinqu.com>

## SUMMARY

Full Stack Web Developer with a passion to write clean and maintainable code. Graduated from Full Stack Coding Bootcamp through University of Washington with a background M.S degree in Computational Chemistry.

## SKILLS

Technical skills: HTML, CSS, JavaScript, Node, Unix/Linux, React, Redux, Azure Web Service, Google Cloud Storage, AWS, Amazon S3, Amazon DynamoDB, Amazon EC2, Express, JQuery, Bootstrap, MySQL, MongoDB, OOP, REST APIs, GraphQL, PWA, , Unit testing, Mocha, Chai, Jest, Webpack

Soft skills: problem-solving, self-motivation, agile development

## PROJECTS

### Safe Harbor Pet Shelter

|Repo:<https://github.com/RuxinQu/safe-harbor-pet-shelter> |

Deployed:<https://safe-harbor-pet-shelter.herokuapp.com/>

Lead Developer

- A full-stack PWA project for Safe Harbor Pet Shelter. Users can view the available pets and send adoption forms to the shelter. An admin page has been added to enable the administrator to manage the pets' data.
- Tools/Languages: Amazon S3, MongoDB, Mongoose, React, Express, Multer, MySQL, Material UI, Nodemailer, Passport-Local, Bcrypt, Heroku

**FitHub** |Repo:<https://github.com/RuxinQu/fithub> | Deployed:

<https://fithub-fitness.herokuapp.com/>

Lead Developer(Group project)

- This full-stack web application is a fitness app that allows users to log in/sign up and save/remove workouts. The application is a PWA and is cross-browser compatible.
- In the back-end development, I implemented GraphQL queries and mutations, and in the front-end development, I established the connection with the ExerciseDB API.
- Tools/Languages: React, Redux, Express, MongoDB, JWT, Apollo GraphQL, Bcrypt, Bootstrap, Node, Heroku, ExerciseDB API

**AWS Thought** |Repo:<https://github.com/RuxinQu/aws-thought> | Deployed:

<http://ec2-35-162-91-240.us-west-2.compute.amazonaws.com>

Lead Developer

- A blog project where users can post text and images. The images are uploaded to an Amazon S3 bucket, and the data is stored in Amazon DynamoDB. The application is deployed to an Amazon EC2 instance.
- Tools/Languages: HTML, CSS, JavaScript, Amazon S3, Amazon DynamoDB, Amazon EC2, React, Express, Multer

## PROFESSIONAL EXPERIENCE

### FOXCONN

Material Analysis Engineer

Jul 2021–Aug 2021

Shenzhen, China

- Learned about the production process and common problems encountered on the lens module production line.

- Utilized Excel to process lens module data, filtering out any failed product data.
- Summarized two SFR failure analysis reports and presented them in daily meetings.

#### **JILIN ZHONGSHI ENVIRONMENTAL PROTECTION GROUP**

Dec 2020–Jan 2021

Forensic Expertise Engineer Assistant (Internship)

Changchun, China

- Conducted the identification and assessment of ecological environment damage and learned about restoration plans for different pollutants.
- Assisted in the preparation of two cases of "Eco-environmental Damage Appraisal and Assessment Opinions" and organized one case of "Eco-environmental Damage Consultation Documents".

### **VOLUNTEER EXPERIENCE**

#### **U-DISTRICT FOOD BANK**

Jan 2022–May 2022

Seattle, WA

- Rationed food donations to customers based on their shopping lists while also monitoring the shelf inventory.
- Improved the Chinese translation of the customer order forms. My total volunteer time was 35.49 hours.

#### **AIESEC**

Jul 2019–Aug 2019

Kuching, Malaysia

- Participated in the Sustainable Development Goals Quality Education program in Kuching, Malaysia.
- worked with 20+ volunteers to plan and organize more than 20 days of teaching activities and a speech contest.

### **EDUCATION**

#### **University of Washington—Certificate in Full Stack Web Development(Online)**

Seattle, WA Aug 2022–Feb 2023

#### **Jilin University—Master of Computational Chemistry**

Changchun, China 2018–2021

#### **Jilin University—Bachelor of Material Chemistry**

Changchun, China 2014–2018

### **PUBLICATIONS**

#### **Iron-Catalyzed N-Alkylation of Secondary Amines with Alcohols Using Borrowing Hydrogen Strategy** | Published on Chemistry Select, April 2021 |

<https://doi.org/10.1002/slct.202100712>

#### **Probing the activity of transition metal M and heteroatom N4 co-doped in vacancy fullerene (M–N4–C64, M = Fe, Co, and Ni) towards the oxygen reduction reaction by density functional theory** | Published on RSC Advances, Jan 2021 |

<https://doi.org/10.1039/D0RA08652E>