Ruxin Qu

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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 in Computational Chemistry.

SKILLS

HTML, CSS, JavaScript, Node.js, Unix/Linux, React, Amazon Web Services, Google Cloud Storage, Github Action(DevOps), MySQL, MongoDB, REST APIs, GraphQL, Unit testing, Laboratory Skills, Chemistry

CERTIFICATIONS

AWS Certified Developer – Associate
AWS Certified Solutions Architect – Associate

EDUCATION

University of Washington—Certificate in Full Stack Web Development
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

PROFESSIONAL EXPERIENCE

FOXCONN   Jul 2021–Aug 2021
Material Analysis Engineer   Shenzhen, China
- Trained in the production process and common issues encountered on the lens module production line.
- Performed data analysis with Excel to process lens module data, filtering out failed product data.
- Summarized two 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 identification and assessment of ecological environment damage and learned about restoration plans for different pollutants.
- Interacted with customers, collaborated on environmental reports, provided reports to engineers, and communicated with customers on the engineer's feedback.

PROJECTS

Dog Tinder Repo | Deployed Page
- A dog Tinder app that enables dog owners to create an account, browse dog profiles, engage in puppy pal matchmaking, and initiate private chats.
- Instant messaging was implemented from scratch using MongoDB.
- Amazon S3 was used to store pictures for users' profiles.
- Tools/Languages: Amazon S3, MongoDB, React, Express, Json Web Token, React

Cookie, Netlify, Material UI

Cloud Thoughts Repo | Deployed Page
- 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 Azure with a pipeline implemented for CI/CD.
- Tools/Languages: Github Action(DevOps), Amazon S3, Amazon DynamoDB, Azure Virtual Machine, React, Express, Multer

FitHub Repo | Deployed Page
Lead Developer(Group project)
- 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.
- I implemented GraphQL queries and mutations, and established the connection with the ExerciseDB API.
- Tools/Languages: React, Redux, Express, MongoDB, JWT, Apollo GraphQL, Bcrypt, Bootstrap, Node.js, Heroku, ExerciseDB API

VOLUNTEER EXPERIENCE

U-DISTRICT FOOD BANK   Jan 2022–May 2022
                                                                    Seattle, WA
- Performed customer service with disadvantaged individuals. Organized food donations to customers based on their shopping lists while also monitoring shelf inventory.
- Improved the Chinese translation of the customer order forms.

AIESEC   Jul 2019–Aug 2019
                                                                    Kuching, Malaysia
- Participated in the Sustainable Development Goals Quality Education program.
- Worked with 20+ volunteers to plan and organize more than 20 days of teaching activities.
- Taught English to 6 local students during the training program.

PUBLICATIONS

Iron-Catalyzed N-Alkylation of Secondary Amines with Alcohols Using Borrowing Hydrogen Strategy | 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 | RSC Advances, Jan 2021 |
https://doi.org/10.1039/D0RA08652E

Mechanistic Insight into Pd(II)-Catalyzed Late-Stage Nondirected C(sp2)-H Cyanation of Toluene Using the Dual Ligands MPAA and Quinoxaline: A Density Functional Theory Investigation| The Journal of Organic Chemistry, July 2021 |
https://doi.org/10.1021/acs.joc.1c01160