

Ruxin Qu

Redmond, WA 98052

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SUMMARY

Web developer with a passion for writing clean and maintainable code. Background M.S in Computational Chemistry.

EDUCATION

University of Washington

Seattle, WA

Certificate in Full Stack Web Development- Score:100/100

Aug 2022–Feb 2023

Highlights: led a team of 4 members on 3 projects, all achieving a perfect score of 100%

Jilin University

Changchun, China

Master of Science, Computational Chemistry

Aug 2018–June 2021

Highlights: Utilized Excel to analyze and organize scientific data.

Jilin University

Changchun, China

Bachelor of Science, Materials Chemistry

Aug 2014–June 2018

Honors: Outstanding Graduate of the Institute

CERTIFICATIONS

AWS Certified Developer – Associate

Sep 2023

AWS Certified Solutions Architect – Associate

Oct 2023

SKILLS

HTML, CSS, JavaScript, React, Redux, Node, OOP, Git, Unix/Linux, Amazon Web Services, Github Action(DevOps), MySQL, MongoDB, RESTful APIs.

PROJECTS

Dog Tinder [Repo](#) | [Deployed Page](#)

- Created a dog tinder application with 20+ features using the MERN stack (MongoDB, Express, React, Node.js), facilitating users in performing CRUD operations. Enhanced responsive design UI/UX with Material UI.
- Secured user sessions with JSON Web Token to maintain data privacy and integrity. Implemented email verification during signup, reducing fraudulent signups by 50%.
- Implemented MongoDB for instant messaging. Integrated Amazon S3 and React Dropzone for image storage and upload, achieving a 20% faster upload speed.

Cloud Thoughts [Repo](#) | [Deployed Page](#)

- Developed a blog platform enabling users to post text and images, achieving a 100 score for both accessibility and SEO using Google Lighthouse.
- Implemented a CI/CD pipeline (YAML) using GitHub Actions for automated deployment on an Azure Virtual Machine, following the Infrastructure as a Service (IaaS) model.
- Utilized Amazon DynamoDB for data storage, ensuring high availability and rapid access.

PROFESSIONAL EXPERIENCE

DataAnnotation

March 2023–present

Web Developer Freelancer

Seattle, WA

- Evaluated and annotated 500+ AI-generated responses within JavaScript contexts to ensure accuracy and reliability.
- Expanded proficiency in Python through hands-on experience in AI evaluation tasks, contributing to improved annotation quality.

Jilin Zhongshi Environmental Protection Group

Dec 2020–Mar 2021

Forensic Expertise Engineer Assistant intern

Changchun, China

- Contributed to the creation of two comprehensive 30-page environmental reports by providing restoration plans targeting a variety of pollutants, achieving a 31% cost reduction.
- Supported customer interactions, managing communication channels with two clients.

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>