Ruobing Fu

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Education

University of Saskatchewan September 2021-Present
Bachelor of Science, Computer Science
Hubei University, China September 2017-June 2021
Bachelor of Science in Chemical Biology
- Exchange student at Peking University. (September 2019-January 2020)

Skills

Technical
- Proficient in Python, Java, JavaScript, C++
- Solid foundation in full-stack development using React, HTML, CSS, Node.js
- Familiarity with various IDEs, including PyCharm, VSCode, IntelliJ
- Experienced in database design and management with MySQL and MongoDB
- Competent in Git for version control and collaborative software development
- Strong understanding of data structures and algorithms
- Knowledge of software development lifecycle and methodologies such as agile and waterfall

Interpersonal
- Quick learner and adaptable to new technologies, languages, and frameworks
- Both a dedicated and driven team player and capable of independent work
- Competent to take the initiative in solving problems and managing tasks
- Skilled in using proper technical terms to communicate clearly in writing and speaking

Projects

IEEE uSask Branch Management System (group project)
An online management system for the IEEE uSask Branch to manage students' affairs including lab equipment and textbook rental, membership and volunteer registration, and transaction management.
- Used Laravel PHP framework for full-stack website development
- Established a MySQL database to handle complex data transactions and user balance tracking
- Delivered an intuitive and user-friendly GUI, ensuring straightforward navigation for all users
- Ensured clear communication and project alignment to meet deadlines and requirements

Web Chat Application (individual project)
Course: Full Stack Web Programming (CMPT353)
A channel-based interactive full-stack website for students to post questions with pictures and provide answers.
- Developed a dynamic website using React.js, Nodejs implemented both front-end and back-end
- Integrated MySQL as the database management system effectively to retrieve and store data
- Unutilized Docker as the primary development environment to containerize the web application

Pharmaceutical calendar system (group project)
Course: Intermediate Software Engineering (CMPT370)
An online application for medical professionals to better plan to administer medication
- Developed using C#, WPF as a GUI tool, and .NET framework
- Followed Agile methodology and met every milestone on time

Work Experience

Cashier February 2023 – Present

The Home Depot, Saskatoon, SK

- Provide excellent customer service by greeting and assisting customers with transactions
- Display a positive and friendly attitude, fostering a pleasant atmosphere within the store
- Demonstrate a strong work ethic by consistently working full shifts and covering when needed

Research assistant August 2018-June 2021

Hubei University, Wuhan City, China

- Prepared Metal-Organic Framework and DNA/RNA samples from raw material regularly
- Conducted precise electrochemical experiments, collecting and analyzing data
- In charge of training new lab workers to adhere to proper lab maintenance procedure
- Published two papers in the SCI journal before graduation, demonstrating a strong dedication to research integrity and the sharing of scientific knowledge

Volunteer work

Web developer September 2022 - present

International Students' Association (INSA)

- Collaborate with the President to manage and oversee INSA's day-to-day operations
- Engage with members and facilitate communication within INSA through various channels
- Assist in the planning and execution of INSA's initiatives to support international students
- Organize and promote INSA's events and activities to the international student community

Publication

- Metal-Mediate Polydopamine Nanoparticles-DNA Nanomachine Coupling Electrochemical Conversion of Metal-Organic Framework for Ultrasensitive MicroRNA Sensing. *Analytical Chemistry* 2021, 93, 40, 13475-13484
- Target-Driven Cascade-Amplified Release of Loads from DNA-Gated Metal-Organic Frameworks for Electrochemical Detection of Cancer Biomarker. *ACS Applied Materials & Interfaces* 2020, 12, 2, 2087-2094