

Ray Jia Zhang

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EXPERIENCE

Software Developer

May 2024 - Dec 2024

Konrad Group

Vancouver, BC

- Re-engineered a charity web application from scratch to host auctions for fundraising, serving 500+ users using React, Typescript and GraphQL, achieving a 75% improvement in website performance
- Designed a database using Prisma and MariaDB, supporting real-time notifications and live bidding functionality
- Devised Next.js frontend solutions for a leading Canadian property management company by implementing new features, improving SEO and user experience
- Monitored and assessed errors in a Contentful CMS ensuring critical uptime. Evaluated error risks, investigated high-priority issues, and advised the client on solutions to maintain system reliability

Software Developer, Web Application

Jan 2023 - Aug 2023

Semtech Corporation

Richmond, BC

- Developed a JavaScript tool using the Fortify framework to evaluate hardware performance in bulk signing operations over millions of iterations. Presented findings, influencing hardware use in new company initiatives
- Designed and deployed new robust JUnit Selenium tests and Apache Ant scripts to expand automated testing framework of 200+ tests, improving test case pass rate increase from 75% to 100%
- Proactively addressed both feature implementation and bug fix tickets for both the React.js frontend and the Java Spring backend to expand functionality and increase customer satisfaction
- Presented and organized content to aid the on-boarding of 2 new teams to the Automated Testing Environment

Bartender

May 2022 - Dec 2023

Earls Kitchen and Bar

Vancouver, BC

- Communicated with managers and worked closely with bartending team to serve hundreds of patrons
- Provided proper, direct customer service for up to 28 patrons while producing beverages for the entire restaurant
- Fostered a relaxed, comfortable environment while upholding proper liquor service practices

PROJECTS

Music Composition AI (Personal) | Python, TensorFlow, Pandas, Numpy

Aug 2022

- Designed and trained a multi-layered LSTM neural network in Tensorflow on Keras' Functional API to compose short MIDI clips
- Engineered an automated data pipeline to prepare 22,297 multi-featured training examples sourced from the MAESTRO dataset for input
- Compared and contrasted two different network models to improve efficiency by 35% and performance by 65%

Cryptocurrency Bank Account (Academic) | Java, JSwing, JUnit

Dec 2021

- Developed a cryptocurrency bank account in Java with a fully interactive GUI built in JSwing, with an emphasis on proper and scalable OOP principles, leveraging Singleton and Observer design patterns
- Engineered and deployed comprehensive unit tests in JUnit to achieve 100% code coverage

TECHNICAL SKILLS

Languages: Javascript, Typescript, Java, Python, C/C++, SQL, GraphQL, HTML/CSS

Frameworks: React.js, Next.js, Tailwind CSS, Node.js, JUnit, Selenium, Cucumber, MariaDB, Prisma

Developer Tools: Git, Docker, Jenkins, AWS

Certifications: Machine Learning (Coursera), Neural Networks and Deep Learning (Coursera), Databases and SQL for Data Science (Coursera, IBM)

EDUCATION

University of British Columbia

Sep 2021 - May 2025

Bachelor of Science in Computer Science, Year 5

Vancouver, BC

- Relevant Coursework: Software Engineering, Computer Networking, Hardware and Operating Systems, Statistics
- Extracurriculars: nwPlus Hackathon Mentor, UBC Recreation Assistant Director, Vietnamese Student Association