

# QIN ZHANG

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## EDUCATION

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**Bachelor of Computer Science**, University of Alberta Sept 2015 - Jun. 2020

**Master of Computer Science**, University of Alberta Sept 2021 - Apr 2023

## TECHNICAL SKILLS

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Python, Pandas, C#, TypeScript, ASP.NET, C++, SQL, Git, CSS3, Docker

## EXPERIENCE

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**Full Stack Developer** Feb 2023 - Now  
Northern Appraisals Ltd. *Edmonton, Canada*

- Continuously managed a sophisticated online SaaS insurance appraisal application, while collaborating closely with team members to implement innovative features
- Developed APIs and microservices using C# for the email system of an ASP.NET Core Model View Controller (MVC) application used to process insurance claims.
- Created SQL database tables and stored procedures. Used Dapper ORM library to implement email storage and retrieval.
- With expertise ranging from SQLite and Node.js on the backend to HTML, CSS, and Typescript on the frontend.

**Software Development Intern** Jan 2022 - Sept 2022  
Demonware *Vancouver, Canada*

- Participated in the development of APIs and microservices to access, transform, and deliver analytic data using Git and Jenkins.
- Created specific data frames to generate alert statistics over different time periods using the Python library Pandas and build the Docker container to successfully run the service in Kubernetes.
- Integrated the script into the service's Python template and accelerated the algorithm to visualize the output in a PDF file within 1 minute with up to 10,000 alert records.

**Student Researcher** Jan 2018 - Sept 2018  
University of Alberta *Edmonton, Canada*

- Contributed to API development and framework enhancement for a monitoring pipeline utilizing YOLO, implemented in the C language. Wrote Python scripts to analyze the recognition results of the image recognition model.

## PROJECTS

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**Rock Classification Machine Learning Web Application** Feb 2023 - Apr 2023

- Built a web application to classify the rock type based on the rock image uploaded by the user. Used Nuxt.js to send the image to the Generative Adversarial Network (GAN) machine learning model and retrieve the classification result via RESTful API.
- Used Nuxt-auth module to achieve OAuth user authentication. Used PostgreSQL Supabase database to store user history classification records.

**React Spotify Player** Jun. 2021 - Aug 2021

- Built an online Spotify player to play personal playlists using ReactJS such as React Hook, React Router, NodeJS and Firebase. Also developed the aesthetic front end using HTML5 and CSS3. ([Try it here](#))