

# ROHAN FAIYAZ KHAN

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## TECHNICAL SKILLS

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**Languages:** Javascript · Typescript · Python  
**Frontend:** React · HTML · CSS · TailwindCSS  
**Backend:** Node.js · Express · Flask · SQL · MongoDB  
**Software/Technologies:** Git · JIRA · Basecamp  
**Others:** Agile Methodology (SCRUM) · User Experience · Web Accessibility

## WORK EXPERIENCE

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**Carleton University** Ottawa, Ontario, Canada  
*Research Assistant* July 2022 - Present

- Wrote Python script to automatically scrape 17,000 press releases on government websites and filter out 406 articles relevant to research project
- Used Jupyter and Pandas to analyze dataset 700 data entries
- Used machine learning technique MICE to predict 33% missing data values

**Queen's University** Kingston, Ontario, Canada  
*Master's Student (AI and Machine Learning)* Sep 2021 - Present

- Re-implemented facial classification neural network from description in paper without source code and achieved test accuracy within 3% of original model's accuracy
- Conducted fairness audit on three state-of-the-art facial emotion recognition neural networks with dataset of 108,000 test images and found upto 20% higher error rate in people of darker skin tone
- Presented research at academic conference in Rotterdam, The Netherlands

**Xen Works Ltd** Dhaka, Bangladesh  
*Frontend Developer* Sep 2019 - Aug 2021

- Used React and Typescript to help develop company's first product which was a retail management and e-commerce SaaS platform, and was involved in project through initial prototyping, pivoting post-pandemic, incorporating feedback from interested clients, polishing and bug-fixing in preparation for launch
- Implemented caching for network requests, which improved load times to just 5 milliseconds after first load and significantly reduced unnecessary network calls
- Synchronized multiple microservices to work seamlessly with each other, including AWS serverless backend, AWS congito authentication module, Algolia search engine, and Portwallet payment gateway
- Was responsible for on-boarding, mentoring and performing code reviews of two new team members, while also writing documentation to ease future on-boarding.

**Relisource** Dhaka, Bangladesh  
*Web Developer* Mar 2019 - Aug 2019

- Worked with clients to maintain a Learning Management System used to provide training to over 10,000 doctors
- Helped develop the frontend of a CRUD based web application for managing information for client in US pharmaceutical industry, and helped integrate frontend into full stack ASP.NET application

## EDUCATION

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**Queen's University** Kingston, Ontario, Canada  
Master's Computing *GPA: 4.23/4.3* Sep 2021 - Jan 2023

**Multimedia University** Cyberjaya, Malaysia  
BEng Computing Engineering *GPA: 3.87/4*

## RELEVANT PROJECTS

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**Personal Blog** Javascript, 11ty.js (static site generator), HTML, CSS, Nunjucks [Link](#)  
**Re-usable Multi-step Form Component** React, Typescript [Link](#)  
**Azure Serverless Function for Image Classification** Python [Link](#)