

# ROHAN MINOCHA

☎ +1 647 325 2812 ✉ rminocha@uwaterloo.ca 🏠 rohanminocha.github.io 🌐 in/rohanminocha 📀 rohanminocha

## TECHNICAL SKILLS

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**Languages** | Python, C/C++, SQL, HTML/CSS/SCSS, R, Golang, Swift, JavaScript, Java

**Libraries** | pandas, NumPy, Matplotlib, scikit-learn, rgdax, mailR, stringi

**Frameworks** | Django, Flask, Bootstrap

## PROJECTS

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### Credit Card Fraud Detection System 📀

- Built a data investigation model using **Python**, pandas, Matplotlib, and NumPy that identifies fraudulent transactions.
- Implemented Machine Learning using the k-nearest neighbors algorithm and k-means clustering.
- Trained the model on data from over **280K** credit card transactions that detected all 492 are fraudulent in **52 seconds**.

### Cryptocurrency Trading Bot 📀

- Developed a bot using **R** and several of its libraries to trade the Ethereum - CAD pair on the GDAX exchange through the API.
- Implemented a combination of **Relative Strength Index (RSI)** indicators suggest to a momentarily oversold market.
- Executed the bot to loop when account balance is more than \$20, buy as much ETH from the current account balance, and sends an email alert notifying about the buy action.

### Xpiry Trackr Application | yuHacks 2021 📀

- Designed a full-stack application using **JavaScript** and **React Native** that keeps track of products' expiry and sends reminders a week in advance.
- Created a bar code scanner that identifies the scanned product and proceeds to scan the expiry date.
- Implemented an algorithm to make the bar code scanner automatically cycle through the user flow with manual buttons allowing for cases where products cannot be scanned properly.

## EXPERIENCE

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### Software Developer

Sept 2021 – Dec 2021

Elekta

Toronto, ON

- Improved the stability of machine QA software (AQUA) using **VMWare** and **Java** by developing test plans.
- Developed a standardized tool for software license generation which increased efficiency by **1500%**.
- Designed the AQUA v31 demo with **Azure** instances used in sales and conference presentations that helped acquire **30 new clients**.
- Proposed a solution strategy that addressed over **20** cybersecurity vulnerabilities and adhered to OWSAP recommendations.

### Mathematics & Computer Science Tutor

Mar 2020 – Feb 2021

Self-employed

Kuwait

- Mentored 4 high school students (Grade 11) to increase a letter grade of C to A in Mathematics and assisted 2 students (Grade 12) to achieve an average of **95%+** Computer Science.
- Designed detailed lesson plans, and remained flexible by delivering lessons over an online platforms (Zoom & Google Meet) Integrated technology in a seamless manner to provide students with an optimal way of learning.

## VOLUNTEERING

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**Mentor** | Hack the North '21, Hack the Valley '21, HackHarvard '21

Sept 2021 – Oct 2021

**Assistant Teacher** | Dr Ruhi Foundation School

Jun 2019 – Jul 2019

## EDUCATION

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### University of Waterloo

Sept 2020 – Apr 2025

Candidate for Bachelor of Computer Science

Waterloo, ON

- President's Scholarship of Distinction
- Relevant Coursework: Object-Oriented Software Development