ROHAN MINOCHA

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TECHNICAL SKILLS

Languages: Python, C/C++, SQL, Golang, R, Racket, Swift, LaTeX, HTML/CSS, JavaScript, Java
Frameworks: Django, Flask, Bootstrap
Developer Tools: VS Code, Visual Studio, Git, Jupyter Notebook, MS Office, XCode, Atom, CodePen
Libraries: pandas, NumPy, Matplotlib, scikit-learn, rgdax, mailR, stringi
Relevant Coursework: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction

PROJECTS

Credit Card Fraud Detection System ⚙   **June 2021**
- A Credit Card Fraud Detection System written using **Python**, pandas, Matplotlib, and NumPy.
- Implemented Machine Learning using the k-nearest neighbors algorithm and k-means clustering.
- The model has been trained on data from **280,000+** credit card transactions.

Cryptocurrency Trading Bot ⚙   **July 2021**
- A Cryptocurrency Trading Bot using **R** language and several of its libraries.
- Used the rgdax wrapper to trade the Ethereum - CAD pair on the GDAX exchange through their API.
- Implemented a combination of **Relative Strength Index (RSI)** indicators suggest to a momentarily oversold market.
- Making improvements by automating using Windows Task Scheduler to remove any possible human error from trading.

Xpiry Trackr Application ⚙   **February 2021**
- Designed an application using **JavaScript** and **React Native** with a team of four students.
- The program scans the product's bar code, identifies what that product is and then scans the expiry date.
- The barcode scanner automatically cycles through the user flow, with manual buttons allowing for cases where things can't be scanned properly.

Blogging Application ⚙   **April 2021**
- A Blogging App using **Flask**, **HTML/CSS**, Bootstrap, Jinja, and SQLAlchemy.
- Integrated SQLAlchemy and Jinja into a Flask program.

EXPERIENCE

Software Developer   **September 2021 – Present**
*Elekta – **Currently working***   *Toronto, ON*

Mathematics and Computer Science Tutor   **March 2020 – February 2021**
Self-employed   *Kuwait*
- Assisted 4 high school students (Grade 11) to increase a letter grade of C to A in Mathematics, as well as helped 2 students (Grade 12) to achieve an average of **95%+** Computer Science.
- Adapted to the different learning methods of each student and developed creative methods of teaching concepts that were difficult for them to understand.
- Designed detailed lesson plans, and remained flexible by delivering lessons over an online platforms (Zoom and Google Meet). Integrated technology in a seamless manner to provide students with an optimal way of learning.

VOLUNTEERING

Mentor - *Hack the North*   **September 2021**

Assistant Teacher - *Dr. Ruhi Foundation School*   **June 2019 – July 2019**

EDUCATION

University of Waterloo   **September 2020 – April 2025**
Bachelor of Computer Science   *Waterloo, ON*

- **$2000** President's Scholarship of Distinction
- Member of the University of Waterloo **Computer Science Club (UWCSC)**