ROHAN MINOCHA

Software Engineer

TECHNICAL SKILLS

Languages | Python, C/C++, SQL, HTML/CSS/SCSS, R, JavaScript, Java **Libraries** | pandas, NumPy, Matplotlib, ReactJS, scikit-learn, rgdax, mailR, stringi **Technologies** | VMware, Django, Flask, React Native, Git, Azure, Bootstrap

EXPERIENCE

Software Developer Intern

Sept 2021 - Dec 2021

Toronto, ON

- Elekta
 - Improved stability of machine QA software across multiple browsers using VMware and Java by developing test plans
 - Optimized software license generation by over 15x by creating a standardized tool, which cut costs by 5%
 - Designed AQUA v3.1 demo with Azure instances used in sales and conferences that helped acquire 30 new clients
 - Resolved faulty rounding function with Java that reduced inaccuracies by 25% in physics tests for linear accelerators
 - Analyzed cyber security vulnerability reports and proposed solution plans adhering to Open Web Application Security Project (OWASP) recommendations that addressed over **20 vulnerabilities**

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 online platforms (Zoom & Google Meet)

PROJECTS

Credit Card Fraud Detection System 🖓

- Built a data investigation model using Python, pandas, Matplotlib, and NumPy that identifies fraudulent transactions
- Trained the model on data from over 280K credit card transactions that detected all 492 frauds within 26 seconds
- Implemented Machine Learning using the k-nearest neighbors algorithm and k-means clustering with a 99% accuracy
- · Utilized data cleaning, data visualization, and confusion matrix methods to detect fraudulent transactions

Cryptocurrency Trading Bot 🗘

- Developed a bot using R 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
- Designed an algorithm to automatically buy ETH based on predefined rules and currently available balance, and notified users of buy action using email

Xpiry Trackr Application | yuHacks 2021 **(7)**

- 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

VOLUNTEERING

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

Sept 2021 - Oct 2021

Assistant Teacher | Dr. Ruhi Foundation School

Jun 2019 - Aug 2019

EDUCATION

University of Waterloo

Bachelor of Computer Science

• President's Scholarship of Distinction

Sept 2020 – Apr 2025 Waterloo, ON