ROHAN MINOCHA

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EDUCATION

University of Waterloo   **Sept 2020 – Apr 2025**
Bachelor of Computer Science   Waterloo, ON
- President's Scholarship of Distinction
- **Relevant Courses:** Elementary Algorithm Design and Data Abstraction, Object-Oriented Software Development

TECHNICAL SKILLS

Languages | Python, Golang, C/C++, SQL, HTML/CSS/SCSS, R, Swift, JavaScript, Java, Bash
Libraries | pandas, NumPy, Matplotlib, ReactJS, scikit-learn, rgdax, mailR, stringi
Technologies | MySQL, MongoDB, Django, Flask, VMware, Git, Linux, React Native, AWS, Azure, Apache

EXPERIENCE

Software Developer Intern   **Sept 2021 – Dec 2021**
Elekta   Toronto, ON
- Improved stability of machine QA software across multiple browsers using **Java** and **VMware** 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**

Application Developer Intern   **Sept 2018 – Jun 2019**
Delhi Public School   Kuwait
- Designed a full-stack ERP application for sharing recorded lectures in real-time, with an added note-taking functionality
- Developed the app using **Swift** and **Xcode**, and received over **6K downloads** on App Store with a **3.0 monthly traffic**
- Initiated refactoring of app codebase to support and organize implementation of additional features and updates
- Reviewed and implemented wireframes and designs for technical feasibility and improved user experience

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 model using k-nearest neighbors algorithm and k-means clustering with **99% accuracy**
- Utilized data cleaning, data visualization, and confusion matrix techniques 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

Expiry Tracker 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 automatically proceeds to scan the expiry date
- Implemented an algorithm to make the bar code scanner automatically cycle through user flow with manual buttons, allowing for cases where products cannot be scanned properly

VOLUNTEERING

Mentor | Hack the North '21, UofT Hacks IX, Hack the Valley '21, HackHarvard '21   **Sept 2021 – Feb 2022**

Assistant Teacher | Dr. Ruhi Foundation School   **Jun 2019 – Aug 2019**