

Akram Jamil

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Education

University of Waterloo

Sep 2024 to Apr 2029

BCFM in Computing & Financial Management (Honor's Co-op)

- **Majors:** Computer Science, Accounting & Finance
- **Coursework:** Analyzing Financial Markets in Python, Designing Programs, Algorithm Design and Data Structures, Techniques for Software Development, International Business

Experience

Telecommunications Consultant Intern

Toronto, ON

Canada Cartage System Limited

Jun 2022 to Aug 2022

- Managed server-side telecommunications systems (with over 5000+ devices), optimizing network performance and ensuring seamless communication across multiple departments.
- Analyzed and maintained telecommunications data to ensure compliance with industry standards and internal policies.
- Aided in the deployment of a company-wide project to upgrade the telecommunications infrastructure, reducing downtime by 20%.
- Collaborated with IT teams to implement scalable communication solutions, supporting the company's logistics and transport operations.

Projects

AlzGuard – YIC (Youth Impact Challenge) Winning Project

[GitHub Link](#) 

- Engineered the front-end and AI model using React, Python, HTML, and CSS for an Alzheimer's detection tool aimed at physicians, which won a \$1,000 prize at YIC.
- Aided in developing a convolutional neural network (CNN) to classify 2000+ images and qualitative clinical data to determine the likelihood of a patient having Alzheimer's Disease with 85.3% accuracy.
- Collaborated in a team of 3 to integrate machine learning models (Random Forest, Meta Classifier) for analyzing MRI scans providing invaluable support in early diagnosis and patient care management.

NLP Web scraping Tool

[GitHub Link](#) 

- Built an AI-Powered Webscraper that can pull data from any website, given a prompt, using a Meta's Ollama AI (Llama ver. 3.2).
- Created an NLP-powered solution that dynamically extracted relevant content from website URLs based on user prompts, achieving accurate data retrieval across 100+ test cases, enhancing web-scraping efficiency.
- Designed front-end in React.js Framework and the Selenium Python Package.

Random Forest Classifier for Stock Predictions

[GitHub Link](#) 

- Developed a custom predictive analytics tool to forecast stock price movements based on historical financial data over the past 10 years.
- Programmed a Random Forest Classifier in Python using Scikit-Learn, trained on 10,000+ data points of stock prices and trading volumes, combined with technical indicators to achieve a 15% improvement in predictive accuracy for market trends.
- Data is taken from Yahoo Finance using the yfinance library in Python and recommends a stock that has a greater than 55% chance of rising in value.

Technologies

Languages: C/C++, Python, Dart, SQL, Java, JavaScript, HTML, CSS

Libraries/Frameworks: Matplotlib, NumPy, NumPy Financials, pandas, yfinance, Flask, Selenium, BeautifulSoup, React.js, Flutter

Tools/Technologies: Visual Studio Code, Android Studio, Jupyter Notebooks, LaTeX, Next.js, MongoDB, Blender, Git/GitHub, Figma