Alexander Naylor

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Skills

Programming Languages:

Python (intermediate), C++ (intermediate), Java (intermediate), HTML + CSS (intermediate), Rust (intermediate), JavaScript (Intermediate), C# (novice), ANTLR (novice), Kotlin (novice), Dart (novice), SQL (novice), R (novice)

OS and Tools:

Windows, Linux (intermediate), Git (intermediate), Gradle (novice), VS Code (intermediate), Flutter (novice)

Libraries:

Pandas (intermediate), NumPy (intermediate), Matplotlib (intermediate), SKLearn (novice), Bootstrap (novice), OpenCV (novice), GGPlot (novice)

Personal Skills:

Quickly able to adapt to new programming languages and tech stacks.

Adept at time management.

Experience in collaborative programming using Git and GitHub.

Experience in teaching programming and teaching troubleshooting techniques.

Education

Ontario Tech University
Computer Science - Data Science Specialization
Bachelor of Science, 2023

Relevant Experience

Teaching Assistant (Software Systems)
Ontario Tech University
3rd January 2023 - 22nd April 2023

Led 20 students though several lab activities involving Java and Glassfish backends and HTML and JavaScript frontends. We explored things such as file access, multithreading, network communications, and working with build tools.

Projects

Image Cartoonizer

[GitHub](#)   [Website](#)

Demonstration of using OpenCV for image processing and computer vision in a Python Jupyter Notebook environment, specifically using color flattening and canny edge detection.

GeoPhoto Social Media Prototype

[GitHub](#)

A mobile app made using the flutter framework in collaboration with 3 others in a mobile development class. It's a prototype social media site where users can post geolocated photos on a map, with the data stored on Firebase.

Web Development Group Project

[GitHub](#)   [Website](#)

A web application build using Vue and Node.js in collaboration with 4 others in a web development class. Contains several simple video games.

Data Mining Association Algorithms Comparison

[GitHub](#)

Several data mining association algorithms implemented in Rust for benchmarking and comparison. The algorithms are Apriori, PCY, Multi Hash PCY, Ransom Sample Apriori, and SON.

Work Experience

Deputy Tabulator
Elections Ontario
25th May 2022 - 4th June 2022

Held responsibility for a tabulation machine during the 2022 Ontario Election. I tested the accuracy of the machine, received and counted ballots, submitted results, and returned the tabulation machine, all according to strict procedure.

Cashier and Meat Department Clerk
Food Basics, Listowel Ontario
2014 - 2017

As a cashier, I was responsible for large amounts of money, as well as verifying ID for lottery and tobacco products. As a meat department clerk, I was responsible for shelf stock management and department cleanliness. I often operated with a high degree of independence due to the small department size leaving me the only person on duty.