Xristopher Aliferis

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Education

University of Western Ontario — London, ON
Bachelor of Engineering Science in Software Engineering — *Sept. 2022 – Present*
- Second Year GPA of 3.90
- 2023 Deans List Recipient

University of Miami — Miami, FL
Bachelor of Engineering Science in Software Engineering — *Sept. 2021 – May. 2022*
- First Year GPA of 3.95
- 2022 Deans, Provost, and Presidents Honor Roll Recipient

Technical Skills

Languages: Java, Python, C++, C#, JavaScript, HTML/CSS, Kotlin, XML
Frameworks: React, Node.js, Flask, FastAPI, Apache Spark, FFmpeg
Developer Tools: Databricks, Scrcpy, Google Cloud Platform, VS Code, Visual Studio, Microsoft Office
Libraries: pandas, scikit-learn, Matplotlib, Natural Language Toolkit, NAudio

Experience

Software Engineering Student — May 2023 – Aug 2023
Med-Eng — *Ottawa, ON*
- Independently developed a robust C# Windows screen-mirroring and audio transfer application, utilizing Scrcpy and ADB technologies. This resulted in a 70% acceleration of the setup process and a 60% reduction in setup failures, demonstrating effective handling of multithreading and async operations.
- Enhanced audio performance by individually designing an Android app in Kotlin that served as an audio transfer endpoint utilizing Android's AudioTrack and AudioRecord APIs and management of Android lifecycle methods.
- Facilitated live audio streaming and boosted usability which led to implementation within bomb suit's head's up display system and the command posts that they speak to. Achieved by implementing efficient server management on the Android device and designing an intuitive user interface while also allowing 98% accurate syncing of audio and video in recording.
- Enhanced understanding of blast sensor readings at Med-Eng by discriminating between blast types and identifying gun styles, achieved by applying Machine Learning algorithms via Scikit-learn, showcasing knowledge in Machine Learning and analytical skills

Intern, Consulting - Technology – AppDev — June 2022 – Sept 2022
BDO Lixar — *Ottawa, ON*
- Created a REST API and connected it to a React website which then outputs the API's data received from GET requests. The website included a navbar, cards, download links, images, etc.
- Worked through the iris dataset and could correctly predict values up to 98.3 percent using machine learning
- Utilized natural language processing (NLTK) to tokenize and stem data, then used TF-IDF and Wordclouds on the data to try out multiple machine learning techniques
- Parsed through and manipulated large CSV and JSON datasets

Research Intern — May 2020 – August 2020
Primecorp Property Management — *Ottawa, ON*
- Leveraged Real Nex database program to research and consolidate multifamily and commercial real estate sales data from Ontario and Quebec, culminating in weekly data presentations to enhance team's understanding.
- Participated in building tours with team members and clients, gaining comprehensive insight into the end-to-end real estate sales process to improve client engagement and process efficiency.

Projects

Pacman Game | *C++* — December 2021
- Developed a Pacman maze game using C++ and UMiami's custom visual library
- Created a function that would allow the user to click space and the Pacman would automatically solve it's way to the end without knowing the path
- Implemented two separate maze maps and "ghosts" that would make a move every time the player did