SOURISH DAS

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EDUCATION

University of Waterloo   Waterloo, ON | Exp. Grad Date: 2026
Bachelor of Computer Science Co-op
- **Relevant Coursework:** Algorithm Design and Data Abstraction · Designing Functional Programs

EXPERIENCE

FULL STACK DEVELOPER | UW Orbital   Waterloo, ON | Sept. 2022 - Present
- Implemented a Maps API to collect and use a user's longitude and latitude
- Designed a homepage for the ARO Website to allow users to send information to our satellite using **React**
- Implemented a connection from the Mission Control Website to a Firebase DB using **React** and **Firebase DB**
- Using **React** and **Figma**, I designed the front end of our Mission Control Centre Website to be more **user-friendly**

SOFTWARE DEVELOPER | Waterloo Aeriel Robotics Group   Waterloo, ON | Sept. 2022 - Present
- Achieved an **accuracy of 92%** when implementing an image classification system using a convolutional neural network, with the help of **Python**, **PyTorch**, **Matplotlib** and **Numpy**
- Implemented effective processing of videos during the drone's flight to identify objects in its surroundings

PROJECTS

BULL FORECAST ⬀   Python, Streamlit, Yahoo Finance, Prophet, Pandas, Matplotlib
- Developed a web app that previews price forecasts on their stock and crypto holdings using **Streamlit**
- Analyzed the relative return of different entities over a given time period using **Python**, **Pandas** and **Matplotlib**
- Allows users to compare the price trends over a given amount of time to future lower-bound, upper-bound and mean predictions using **Python**, **Pandas** and **Matplotlib** with a **81% accuracy**

ALERTNYSE ⬀   Python, Jupyter Notebook, Yahoo Finance, Sklearn, Smtplib, Ssl
- Created a script that sends users an email notification if a specific stock in your created portfolio reaches a certain target price, or a likely possibility of providing a certain return, with the help of **Python**, **Pandas** and **Smtplib**
- Users are able to preview their portfolio and witness real-time price changes using **Yahoo Finance**, and **Python**
- Implemented mean regression to make the forecasts

STOCK CORRELATION CALCULATOR ⬀   Python, Pandas, FastAPI, Matplotlib, Numpy, React
- Created a **RESTful API** to calculate Kendall Correlation between stocks using **FastAPI**, **Python**, and **Pandas**
- Using **React** and **Chakra-UI**, created a web app that previews statistics and charts regarding a stock's correlation
- Analyzed the highest correlated pairs of stocks in the S&P 500 using **Python**, **Matplotlib**, and **Pandas**

REPME ⬀   Python, Pandas, OpenCV, MediaPipe, Matplotlib, Numpy, React
- Using **OpenCV** and **MediaPipe**, developed an algorithm responsible for counting reps for various home workouts
- With the help of **Flask** established a connection between the Python back-end and the front-end
- Designed and built a front-end using **React. js** allowing users to choose a suitable exercise based on their skill level

NETFLIX2.0 ⬀   React, Firebase DB, Stripe Checkouts, TMDB API
- Developed a full-stack web app replicating the current look and feel of Netflix, using **React** and **TMDB API**
- Implemented a login feature to allow users to create accounts and personalize their experience using **Firebase DB**

SKILLS

Languages: : Python, JavaScript, C/C++, Java, Go, Scheme, SQL, Swift, R
Frameworks and Libraries: Node.js, Jupyter Notebook, React, Pandas, NumPy, Matplotlib
Developer Tools: Git, VS Code, PyCharm, GitHub
Soft Skills: Verbal and Written Communication, Analytical Thinking, Time Management, Collaboration