

# Andre Arcaina

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## SKILLS/INTERESTS

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**Languages:** Python, JavaScript, C/C++, Java, SQL (mySQL)  
**Technical:** Flask, HTML5, CSS, Bootstrap5, NumPy, Pandas, Matplotlib  
**Developer Tools:** VS Code, PyCharm, IntelliJ, Eclipse, Geany  
**Interests:** Full Stack Development, DevOps, Machine Learning, Data Science

## PROJECTS

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- self.translate** | *Python, CSS, Streamlit* | [GitHub Link](#) April 2023
- Collaborated with three other programmers on a project during 2023 DeerHacks
  - Designed and developed a simplistic web application using Streamlit
  - Utilized Co:here and Google Translate API for detecting and translating languages
  - Implemented OpenCV, MediaPipe, and Cvzone for hand recognition in self.sign
  - Additionally used OpenAI for generating a lesson plan through a user prompt
- Stock-Predictor** | *Flask, Python, HTML5/CSS, JavaScript* | [GitHub Link](#) April 2023 – Present
- Developed a machine learning model using Keras and Sci-Kit Learn to predict the cryptocurrency ETH's prices for the next thirty days
  - Utilized Jupyter's Notebook, Seaborn, and Matplotlib to display the graphs
  - Work in progress Flask application that will allow user input to display more than just ETH prices, but any other stock/cryptocurrency
  - Utilized Cryptocompare.com free API key for historical prices for each stock
- Re-Tic-Tac-Toe** | *Javascript, HTML5/CSS* | [GitHub Link](#) March 2023
- Created the game TicTacToe or X's and O's
  - Constructed the game on a website that handles mouse input onclick
  - Designed a grid with cells and gametiles alongside some animations with CSS
  - Allows user to reset with a restart button that animates up on hover
- Re-2048** | *Javascript, HTML5/CSS* | [GitHub Link](#) March 2023 – April 2023
- Created my version of the game called 2048, originally made by Gabriele Cirulli
  - Constructed the game on a website that handles key inputs to slide the blocks
  - Designed a grid with cells and gametiles alongside some animations with CSS
  - With every movement input, there is a swiping animation alongside it
- TwitterCow** | *Python, Flask, Javascript, HTML5/CSS, Snsrape* | [GitHub Link](#) Jan 2023
- Collaborated with three other programmers on a project during 2023 UofTHacksX
  - Showcased data based on popularity of user's searches and past preferences
  - Implemented React.js in front-end development to display depending on the user's searches
- Champions-Arena** | *Java, Java.Awt.Swing, Java Socket* | [GitHub Link](#) Dec 2021 - Jan 2022
- Collaborated with two other programmers on project during my final year in High School
  - Developed a top-down online multiplayer using a network protocol for a coding assignment
  - Implemented the MVC-Architecture for program readability and user interfaces
  - Designed an interactive user interface using Java.Awt and Java.Awt.Swing

## EDUCATION

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- Toronto Metropolitan University** Sept 2022 – Present
- Bachelor of Science (Honours)
  - Relevant Courses: Python, Java, Discrete Mathematics, Computer Organization
- St. Augustine Catholic High School** Sept 2018 - June 2022
- Ontario Secondary School Diploma
  - Awards: Honour Roll (2018-2022), STEM+ Certificate