# Claudiu Jipa

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#### EDUCATION

University of Essex Oct 2023

Master of Science in Computer Science

University of Essex July 2022

Bachelor of Science in Computer Science

#### Projects

#### • jipelski.github.io

- Developed a static website using HTML, CSS and JavaScript and hosted it using GitHub Pages
- Used GitHub API to dynamically load repositories from my personal GitHub into my website
- The static HTML files are created and loaded dynamically using JavaScript
- Used EmailJS to implement message sending behaviour

#### • Mobile Merger Game

- o Developed a Java-based mobile application consisting of a merger game
- o Adhered to OOP concepts to create 5 building units, 12 friendly units, 4 enemy units, and 8 resource units, each having up to 7 levels
- Developed and tested the front end, back end, and data loader

#### **Stock Price Prediction**

- o Developed and tested 4 machine learning models using PyTorch, keras and unittest to predict stock prices based on historical data analysis
- Trained the models on a 80% split and tested on the remaining 20%, achieving a 96% accuracy prediction in 2 models, and over 85% in the other 2

#### • TurtleBot3 Autonomous Navigation

- o Developed a PID controller in Python to ensure obstacle avoidance and right edge wall following behaviours for a TurtleBot3 running on the ROS2 operating system
- Developed the same behaviours using fuzzy logic without the use of 3rd party libraries
- Tested both implementations in the Gazebo simulator and in the robotics arena of the university, achieving results that met the expectations

#### Command-line Multiplayer Ball Game

- Developed a game hosting server with a tested capacity of 50 clients using java.net.Socket
- Developed a client side program which connects to the existing server using the same library
- Developed listeners for both client and server side programs to properly interpret the changes in the game

### EXPERIENCE

Essex Food Colchester, Essex

Catering Assistant

Oct 2021 - Oct 2023

- Single-handedly managed the coffee shop during most weekends ensuring the highest level of service was delivered
- o Trained new employees

KFC Colchester, Essex Sept 2020 - Mar 2021

Catering Assistant

Worked in a team with other assistants to complete tasks in a timely manner

o Adapted to work in a fast-paced environment

## SKILLS

Languages: Java, Kotlin, Python, C++, C#, JavaScript, HTML, CSS, SQL (PostgreSQL, MySQL, SQLite)

Frameworks: .NET, Spring, JUnit, ROS2, React, Mockito

Software: Git, OpenVPN

Libraries: PyTorch, pandas, TensorFlow, OpenCV, scikit-learn, NumPy