

EDUCATION

- **University of Essex** Oct 2023
Master of Science in Computer Science
- **University of Essex** July 2022
Bachelor of Science in Computer Science

PROJECTS

- **Virtual Coffee Shop**
 - Developed the back-end, front-end, server, database and an API for an online coffee shop simulation
 - Designed the back-end using Java and Spring, the front-end using JavaScript, HTML, CSS and React, and a database using PostgreSQL
 - Hosted all the components on a Raspberry Pi 4 model B
- **Food Recipe App**
 - Developed a Kotlin-based application with dual functionality, enabling offline access using a local database and online access by connecting to a server
 - Integrated a SQLite database into the app to ensure uninterrupted functionality in the absence of internet or server access
 - Developed a PostgreSQL database on a remote server
 - Created a custom API using Spring for secure data fetching from the server
- **Stock Price Prediction**
 - 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**
 - 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
 - Trained new employees
- **KFC** Colchester, Essex
Catering Assistant Sept 2020 - Mar 2021
 - Worked in a team with other assistants to complete tasks in a timely manner
 - 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