Fadi Mostefai
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PROFILE

A current 2nd year undergraduate student at King's College London, aiming to step into the world of robotics to work on robotic prosthetics to help grant amputees with some of the limb function that have been lost.

EDUCATION

King's College London London, England
BSc in Artificial Intelligence with a Year in Industry 2024-2028
Classification: Grade achieved to date – 1st
Relevant Coursework:

- Robotic movement and reasoning with ROS in Python:
  - Controlled a simulated robot in a ROS1 container in Python for Linux Ubuntu.
  - Utilised state machines (SMACH), object recognition (YOLOv4), and speech recognition (ros_vosk package).
  - Attained 100 in the coursework and have a solid understanding in using ROS for controlling robots.
- Game development in Java:
  - Produced a JavaFX game in a group of 4 that had real time collision detection and random map generation.
  - The game played like the Super Mario games where the player can control a character and makes it through a series of randomly connected rooms.
  - Learnt how to work as a team using github, delegating tasks and features to each person.
  - Attained a 90 in the coursework.

St Ignatius College London, England
A-Levels (Mathematics, Further Mathematics, Physics, Computer Science) 2022-2024
Grades: Awarded A*A*AA for these subjects respectively.
GCSEs (Including Mathematics, English Language, Computer Science) 2017-2022
Grades: Awarded 999998887 with 9s in the above subjects

TECHNICAL SKILLS

- Able to use Linux Ubuntu and am familiar with terminal commands.
- Projects:
  - Frame Recurrent Video Super Resolution:
    - A video super resolution algorithm that takes in a low-resolution video and outputs a high-resolution video.
    - Implemented in Pytorch, uses 3 CNNs to create estimates of the high-resolution version of the low-resolution frame and uses this estimate to help create the estimate for the next frame.
  - Gesture Control Robot:
    - Developed a program in a group of 3 which takes hand signals from the user via the camera and controls a robotic arm to perform an action.
    - Comprised of a ROS2 Humble environment Gazebo simulation and a CNN designed in Pytorch to recognise and process video feed into hand signals.
  - More information about these projects can be found on the website linked at the top of this CV.

WORK EXPERIENCE

Forage & JPMorgan Online
Virtual Software Engineer Experience June 2023 – July 2023

- Configured an interface with a stock price data feed.
- Utilised JPMorgan Chase & Co. frameworks and tools to display data visually for traders.

SKILLS AND INTERESTS / AWARDS AND ACHIEVEMENTS

Technical: Proficient in Python, Java, Git, Pytorch, and Pandas.
Languages: English (native)
Interests: Gaming, watching anime, playing chess, watching tv shows