Issac Abraham

Software Engineer

Education

MEng - Computer Science (2020-2024)

University of Portsmouth 1st-year results = First-class honours (UK)

Contact

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Southampton, UK

<u>Skills</u>

Languages: Python, Java, Pascal,

Web Technologies: HTML, CSS, Javascript, Node, Express, React

Frameworks: Selenium, MongoDB, PostgreSQL

Spoken languages: English, Malayalam

Notable Projects

Djikstra's Shortest Path with Google Maps API

- Interfaces with Google Maps API
- Used OpenCV to read Image
- Used Dijkstra's Algorithm to calculate the shortest path

<u>Used</u>: Java/JavaFX, OpenCV

• Sudoku Multiplayer Game

- Made a WebSocket server in Python
 - Used Asynchronous Programming
- Used backtracking to calculate sudoku boards
- Used MongoDB to store running games
- Used Java/JavaFX to make desktop GUI client
- Used HTML,CSS,JavaScript to make web client

Used: Python, MongoDB, Java/JavaFX, HTML, CSS, Javascript

Algo Trader with Pattern Recognition

- Interfaces with Oanda's Rest and Streaming API to get stock prices and access trading account
- Calculated mathematical indicators using pandas and NumPy
- Used Multiproccessing to find and store patterns
- Used Multithreading when trading
- Used Cython to speed up code
- Deployed to GCP VM

<u>Used:</u> python, parallelprogramming, GCP

• Youtube Playlist Duration Extention

- Uses Javascript to access YouTube DOM to retrieve the time of all videos in the playlist
- Manipulates YouTube's DOM to add results using CSS & HTML

Used: Javascript, CSS, Chrome