SOFTWARE ENGINEER · QUEEN MARY UNIVERSITY OF LONDON

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Education

Queen Mary University of London

London, United Kingdom

BSc Computer Science, First Class Honours

Sep. 2017 - Aug. 2020

 Relevant courses: Semi-Structured Data and Advanced Data Modelling, Big Data Processing, Image Processing, Compilers, Web Programming, and Multi-Platform Game Development.

- Awarded 'Deputy Principal's Award' for academic excellence.
- Final year project was based on enabling cross-border transactions using smart contracts to allow payments without intermediaries which was made possible by implementing escrow accounts.

Work Experience.

MThree London, United Kingdom

SOFTWARE ENGINEER TRAINEE

Oct. 2021 - Nov. 2021

• Underwent six-weeks training in Full Stack Engineering (Java).

Freelance London, United Kingdom

FULL STACK DEVELOPER

Jun. 2021 - Aug. 2021

- · Created separate and restricted admin access for inventory management.
- Implemented different access levels to handle orders and customer interaction which sped up the payment process by 70%.

Technical Skills

- · Proficient in Python, Java, JavaScript
- Varying experience with C#, React, TypeScript, MySQL, MongoDB, NodeJS, HTML/CSS, Django, ŁTEX
- Experienced with Git, Unity3D, Windows, Linux, Hadoop, Apache Spark

Personal Projects

AdamJee Mart

 $\textbf{Website:} \ \underline{adamjeemart.herokuapp.com} \ \mid \textbf{Repository:} \ \underline{github.com/hamza3256/MERN-eCommerce}$

- · Designed and developed an e-Commerce website as part of a freelance project for a retail store in London.
- · Implemented separate admin access and inventory management system.
- Technologies used: React, MongoDB, NodeJS, Express.

XBorder

WEBSITE: xborder.herokuapp.com | REPOSITORY: github.com/hamza3256/xborder

- · Designed and developed a web application for cross-border transactions as part of my final year project.
- Implemented and deployed smart contracts which enables a user to perform transactions using escrow account implementation.
- Deployed functions on AWS that fetches live data from Binance using API.
- Technologies used: Solidity, Ethereum smart contracts, ReactJS.

Sudoku Solver

Repository: github.com/hamza3256/SudokuSolver

- Implemented backtracking algorithm to visually solve a given Sudoku.
- · Technologies used: Python.

First-Person Shooter Game

DEMO: youtu.be/QKCn53OalZg | REPOSITORY: github.com/hamza3256/FPS-MULTI

- Developed a First Person Shooter game with AI enemy bots and one gameplay level .
- Implemented realistic gun mechanics and environmental aesthetics enhancing overall gameplay.
- Technologies used: Unity3D and C#.

Image Processor

 ${\it Repository:}\ \ \underline{github.com/hamza3256/Image-processor}$

- $\bullet \ \ {\hbox{Developed an image processor with functionalities including undo and multiple image attachments}.$
- Implemented mathematical filters and functions that alters the full given image(s) or ROI of the image.
- · Technologies used: Java.

Auction Website

 ${\tt Website}: {\it django-auction-project.herokuapp.com} \; | \; {\tt Repository}: {\it github.com/hamza3256/Django_auction_project.herokuapp.com} \; | \; {\tt Repository}: {\it github.com/hamza3256/Django_aucti$

- Implemented search mechanism using Ajax.
- Technologies used: Django, Python, Ajax, HTML/CSS.