

Muhammad Abubakar

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PROFILE

I am an enthusiastic computer science graduate who loves to solve challenging problems by using an efficient approach. I have 3 years in python software development, building back end and front end using python. I am excited by conversations in software architecture and cloud technology.

EDUCATION

University of Nottingham

Bachelor of Science in Computer Science with Artificial Intelligence

- Awarded Second Upper (2:1)

Nottingham, Nottinghamshire

Sep 2020 – May 2023

WORK EXPERIENCE

Software Developer Internship

Zeenat Jewellers

- Developed a windows desktop application to add logo to images in batches as per client's business requirement
- Isolated GUI elements from the business logic by incorporating an end to end multi-threaded architecture
- Provided a finished product shipped with a setup file, reducing the manual processes by harnessing automation

Jun 2022 – Aug 2022

Manama, Kingdom of Bahrain

ADDITIONAL EXPERIENCE

Sales Assistant

Hamleys St.Pancras International Station

- Working as a team of 2-6 to manage the store providing assistance to customers, maintaining store shelves and ensuring that the store is in perfect condition
- Responsible for managing the tills and checkout, processing transactions both in cash and credit cards
- Achieved a flawless 100% performance rating during the peak Christmas period by providing excellent customer service

Oct 2023 – Present

London, United Kingdom

PROJECTS

Cover Letter Generator | AWS, Google Cloud Platform (OAuth), React, JavaScript

Jul 2023 – Present

- Building a cover letter generator utilizing open AI's capabilities to generate tailored cover letters
- Utilizing a secured RESTful Web API linking the back end logic with the front end
- Implementing an OAuth flow capable of adding multiple Google accounts as a medium of authenticating a user

GoldFolio | Python, PyQt5, MySQL, Matplotlib, Machine Learning

Sep 2022 – May 2023

- Developed an advanced Python desktop app using PyQt5 framework for gold investment management with simple analysis
- Designed and developed a way to undo destructive changes such as delete by using data archives and logging databases
- Incorporated an advanced predictive analysis of future gold prices using machine learning, for informed decision making

HeatGen | Python, PyQt5, Numpy, Pandas, Matplotlib, Multi-Threading, Deep learning, Github

Sep 2021 – May 2022

- Engineered a neural network-based application to generate heat-map of bricks using a set of 1D variables
- Managed a team of 4 to develop the front end of the application and I was responsible for making sure both the front end and back end remained compatible throughout the development cycle
- Designed and developed a multi-threaded architecture to disconnect the user interface with the back end logic
- Published journal in JESTEC, [Volume 18. Issue 2](#)

Android Fitness Tracker | Android Studio, Google Map SDK, OOP, SQLite, MVVM

Dec 2022 – Jan 2023

- Constructed an android application capable of measuring a user's running data and displaying previous run's data with the ability to annotate it
- Utilized google map's SDK to display user's path and store it's information in the database
- Designed and implemented a solution that allows user to switch to different application while fitness tracker is running in the background

TECHNICAL SKILLS

Languages: Python, Java, Java(Android Studio), JavaScript, HTML/CSS

Frameworks: Flask, PyQt5, React

Libraries: Pandas, Numpy, Matplotlib

Developer Tools and Technologies: Git, GitHub, Docker, Postman, Amazon Web Services (AWS), Google Cloud Platform (OAuth), RESTful API (Web API) , JSON

Industry Knowledge: Object Oriented Programming (OOP) , Multi-Threading, Software Maintenance, Software Testing

Databases: MySQL , Firebase, DynamoDB(AWS)