

Mostafa Hanafi

mostafahanafi2001@hotmail.com ❖ <https://hanafi.dev> ❖ London, UK

WORK EXPERIENCE

IBM Doncaster (UCL IXN)

Oct. 2021 – Mar. 2022

Backend & Website Developer

London, UK

- Implemented a navigation web application for the Doncaster Royal Institute as part of a team project for IBM Doncaster using Docker and Flask (**Python**).
- Developed entirely a project website (**HTML, CSS, JS, Bootstrap**) showcasing application and design process.
- Programmed entire backend for graph platform in **Python** using key **algorithms** (e.g., Dijkstra's) and custom data structures.

EDUCATION

University College London

Sep. 2020 – Jun. 2024

MEng. Computer Science

London, UK

- 100.00% (**highest in cohort**) in Discrete Mathematics for Computer Scientists

British International School of Cairo

Sep. 2005 – Jun. 2020

International Baccalaureate (IBDP)

Cairo, Egypt

- 40 total in IB, including:
 - 7 (**max**) in Higher Level Mathematics
 - 7 (**max**) in Higher Level Further Mathematics
 - 7 (**max**) in Higher Level Physics
- **Highest Mark in the World** – Outstanding Pearson Learner's Award for GCSE Mathematics

EXTRACURRICULARS

JP Morgan Chase & Co.

Nov. 2023

Quantitative Research Job Simulation by Forage

- Completed a simulation focused on quantitative research methods
- Analyzed a book of loans to estimate a customer's probability of default
- Used dynamic programming to convert FICO scores into categorical data to predict defaults

Major League Hacking

Mar. 2023

Software Development Prep Fellowship

- Selected from over 30,000 applicants and worked in a team of 15 to develop a weather-based trip-planning web application using React.js, Node.js and OpenWeatherMap API
- Developed a custom UI to display weather data with dynamic graphics using React
- Implemented a blog feature for a portfolio website
- Involved in daily scrum meetings, feature enhancement, and design discussions

SKILLS

- Proficient in **Python** (especially **data science** and **machine learning** libraries – **numpy, pandas, matplotlib, scikit-learn, etc.**) as well as experience with **C, Java, Git, HTML/CSS, React.js, and WordPress**
- Experienced with **data structures** and **algorithms**
- Fluent in English and Arabic, and working proficiency in French