

# ESRAA YASSER DANDASH

Postgraduate Student - Knowledge, Information and Data Science

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London, UK

## PERSONAL PROFILE

Data Science postgraduate student at UCL with theoretical and applied knowledge in statistics, analysis and machine learning methods developed through work placements completed at top tier educational and financial institutions. With a keen interest in leveraging Data to address environmental sustainability issues, I developed a data-driven, analytical platform, winning the University of London Trust Funds Prize. I am seeking a full-time Data Science role upon graduation in an environment where Data is a driving force.

## RELEVANT EXPERIENCE

### Teaching Assistant

#### City University of London

Sep 2019 – Aug 2020

London, UK

- Supported the delivery, material preparation and marking of modules such as Java, Business Systems, Language Processors, Web Development and Systems Architecture.
- Took part in City's Computer Science department's crisis management efforts to ensure City students' well-being and progress during the pandemic, utilising planning, scheduling and online delivery software.

### Chief Digital Office Trainee

#### Société Générale CIB

Jul 2018 – Apr 2019

London, UK

- Clustered data from the bank's API to identify trends and study usage KPIs using Excel, Python and data visualisation skills.
- Built complex financial real-time dashboards using HTML, CSS, JS, Django, AG-Grid, IntroJS & HighCharts to prototype new features for existing SG Markets platforms including Fixed Income, Equity Derivatives, Commodities and FX.
- Developed the prototype of the bank's first cross-asset trading platform.

### Data Analyst

#### American Express GBT

Jun 2017 – Jun 2018

London, UK

- Executed SQL scripts, data cleaning, blending, exploration, analysis and visualisations in Excel, Alteryx & Tableau, building reports on corporate travel KPIs for stakeholders.
- Developed the skills to manage complex datasets and generate insights with a focus on scalability and automation.
- Took initiative within AMEX's Business Intelligence Team to learn Alteryx to quality check and consolidate data from different sources into one database to achieve consistent global reporting.
- Fulfilled a unique role as the only data analyst in an outsourced team, producing and presenting Data visualisations for a multinational European organisation establishing a new, optimised travel policy.

## EDUCATION

### MSc Knowledge, Information & Data Science

#### University College London

Sep 2022 - Sep 2023 London, UK

- Modules to be completed: Database Theory, Data Visualisation, Machine Learning Methods, Statistics, NLP, Information Governance, Graph Databases.

### BSc (Hons) Computer Science, Professional Pathway, 1:1

#### City University of London

Sep 2016 - Jul 2020 London, UK

- Data Related Modules: Intro to AI, Advanced Databases and Computer Vision.
- Professional Pathway Scheme Details : <https://bit.ly/3t56kLX>

## TECHNICAL SKILLS

SQL

Excel, PowerPoint

Python

Machine Learning

SciKit

Java

Tableau

Git

HTML, CSS, JS

Alteryx

## KEY ACHIEVEMENTS

🏆 University of London Trust Funds Prize 2020. Listed Criteria: "Awarded to a graduating student who has completed an excellent Final Year Project with strong potential to address a social need and/or have a positive environmental impact."

🏆 Selected as a finalist alongside 15 other startups in City University of London's official startup competition in 2019.

🏆 Bloomberg's Best Tech Stack Prize at HackUPC in Barcelona, Spain (2018). Awarded to a project that best integrated different hardware and software products. Collaborated in developing a smart photo booth using an Alexa Speaker, Nikon DSLR Camera and Twitter.

## SELECTED PROJECTS

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- NMEC, Requirement Analysis & Product Development  
**National Museum of Egyptian Civilisation**

📅 2020-2021 - Freelance Project with the Egyptian Ministry of Tourism

Gathered and communicated portal requirements and user flows with the Egyptian Ministry of Tourism & Antiquities, followed by designing the wireframes and building the front end of Egypt's first online ticketing platform for the National Museum of Egyptian Civilisation, used by 800 visitors on the first day of its launch. (<https://egymonuments.com/en/>)

User Workflow    Airtable    Adobe XD    HTML, SASS

JavaScript    Data Collection    User Experience

- NILE, Environmental Analytics & Management Platform

**Award winning Graduation Project**

Conducted extensive research on British and European data regulations, UX design and implementation of a multi purpose environmental analytics platform incorporating Carbon, Water and Waste analytics into customised dashboards and offering solutions to small businesses.

Data Visualisation, D3

Postgres    Python    Django    HTML, SASS, BS4    Sketch

JavaScript    jQuery    Research    Data Consolidation

## VOLUNTEERING

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- Led my University's Tech Society as Vice President. Fostered partnerships with EU and UK-based companies to present new opportunities for the community members.
- Created and delivered Web Dev 101, an 8-week Web Development program, to City students across all majors, increasing society subscriptions from non CS majors by 100
- Organised Local Hack Day as the head of the organising committee, attracting around 100 students for a 1-day hackathon with around 10 final projects deploying a wealth of technologies and APIs.

## SOFT SKILLS

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### Communication

Having participated in 16 hackathons and presented data projects to multiple stakeholders including senior executives and government officials, I am competent at public speaking and interacting with a diverse audience.



### Analytical Thinking

Developed a sharp intuition for product and the ability to break down complex problems into simpler components to generate actionable insights.



### Time Management

Being a working student and a community leader at City from 2017 till 2020 has challenged me immensely to be able to organise my tasks and allocate sufficient timing for my various responsibilities to be fulfilled at excellent levels.



### Leadership

Built communities and headed event organisation during my time at City Tech Soc.

## REFERENCES

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Available upon request.