

# LEO HUSSAIN

GIS SPECIALIST    📍 LONDON    ☎ +447903000606

## ◦ DETAILS ◦

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## ◦ SKILLS ◦

ArcGIS Desktop  
QGIS  
Python  
Project Management  
Client Liaison  
R  
SQL  
JavaScript  
HTML & CSS  
Django  
Adobe Photoshop  
Adobe Illustrator  
Microsoft Office

## ◦ HOBBIES ◦

Running & Fitness  
Cooking  
Gaming

## 👤 PROFILE

GIS specialist with an MSc in Geographical Information Science from UCL and a BSc in Geography from King's College London. I have attained a variety of technical skills, geared toward creativity and development, and have successfully applied these skills to many forms of geospatial analysis and data. I have a deep interest in mapping and data handling and goals to broaden my knowledge and become a professional expert in the field of GIS. My key strengths are in graphic and cartographic design, geodata processing and front-end development.

## 📁 EMPLOYMENT HISTORY

### ○ Head of Geospatial Development & Data Management at Oasis Hub Ltd, London

November 2020 — December 2021

**Geospatial Data Management & Services:** Management of all data, metadata, and services on website. Responsible for ongoing new data discoveries. Broadened knowledge of available catastrophe data for consulting and value-added service application. Maintenance of GeoServer. Created maps and visualised spatial data for sampling commercial data and marketing.

**Website Administration & Marketing:** Task coordinator for all web development and site maintenance. Reported monthly analytics and stats. Updates to CRM system. Graphic design for web/social marketing material using Photoshop and organisational press/report documents. Created blog posts, custom web pages and newsletters via Mailchimp.

**Web Development:** Creation and deployment of a secondary data portal serving global climate change model outputs, targeted mainly for the Banking/Finance sector to accompany the Bank of England's 2021 Climate Biennial Exploratory Scenario (CBES) and to support the Task Force on Climate-Related Financial Disclosures (TCFD). Web UI was developed in Django with Wagtail CMS and hosted on AWS.

**Project Management:** Project manager of the Oasis-CAIMAN project, a collaboration between Oasis Hub Ltd and Cranfield University, funded by Innovate UK. Communicated with insurance claims adjusters and academics for product R&D. Designed technical specifications for a mobile application and web front-end. Designed project timeline, CRM and Gantt charts for review reporting.

**Client Liaison:** Being the face for customer service and client liaison. Experienced in communicating climate change and disaster data to Insurtech, large banks, consultancies and retail/distribution corporations, among others. Partook in an EU Horizon 2020 project, collaborating with 23 universities and SME's across Europe, which delivered climate-change risk data through the Oasis Hub portal.

### ○ Geospatial Market Analyst at Oasis Hub Ltd, London

April 2019 — November 2020

### ○ Part-time Work at Amazon, Tesco, Sainsbury's & Domino's Pizza

March 2013 — December 2018

### ○ Voluntary GIS Technician at Mapping4Change Ltd

May 2017 — July 2017

Assisting the completion of mapping and analysis of research for multiple humanitarian projects.

## 🎓 EDUCATION

### ○ MSc Geographical Information Science at University College London (UCL)

September 2017 — September 2018

### ○ BSc Geography at King's College London

September 2014 — July 2017

### ○ Certificate of Higher Education in Social Sciences at Birkbeck University of London

September 2013 — July 2014

## ★ COURSES

### ○ Python for Everybody Specialisation, University of Michigan

2020

- Python Data Structures, Using Python to Access Web Data, Using Databases with Python
- Capstone: Retrieving, Processing, and Visualizing Data with Python

This Specialization introduced me to programming concepts including data structures, networked application program interfaces, and databases, using the Python programming language. My projects in this course included using the Google PageRank Algorithm to understand search engine basics, retrieving, cleaning and modelling data from Google Geodata API and in-browser map visualisation using Google Maps API.

### ○ Web Design for Everybody Specialisation, University of Michigan

2020

- Introduction to HTML5 & CSS3, Interactivity with JavaScript, Responsive Design
- Web Design for Everybody Capstone Project

This Specialization covered writing syntactically correct HTML5 and CSS3 and creating interactive web experiences with JavaScript. Also, developing high quality web sites that, work seamlessly on mobile, tablet, and large screen browsers accessible. During the capstone I developed a professional-quality web portfolio demonstrating my growth in web development and my knowledge of accessible web design.

### ○ Django For Everybody Specialisation, University of Michigan

2020

- Building Web Applications in Django, Django Features and Libraries
- Using Javascript, JQuery & JSON in Django

This specialization introduced me to building responsive websites using the Django web framework.

## ★ PROJECTS

### ○ Climate Biennial Exploratory Scenario with The Bank of England

2021

*SKILLS USED: Python, NetCDF Processing, Climate Change Forecasting, Django/Wagtail CMS*

Was one of three climate data providers for CBES Climate Physical Risk Statistics. Aggregated and processed climate model outputs to extract daily and annual mean values for precipitation, wind speed and sea level rise. Mean values were then calculated as a running means under different climate scenarios as defined by the Bank of England & TCFD. Statistics and processed NetCDF files were distributed via a dedicated climate change data platform, made in Django/Wagtail.

### ○ Oasis-CAIMAN with Cranfield University & UKRI

2019 - 2021

*SKILLS USED: Project Management, UI/UX Design*

The Oasis-CAIMAN project developed an object-detection drone image processing system, aimed to be used by the insurance sector as a tool to speed up and verify the post-disaster property damage claims process. I gained experience as a project manager, overseeing all technical R&D, being heavily involved in the planning stages of the mobile application for claimants and web interface for administrators.

### ○ Develop Android App for Rough Sleeper Data in London with Crisis & Greater London Authority

2018

*SKILLS USED: Javascript, HTML, Git, Node.js, PostgreSQL*

Developed an android app (full stack) to display and map the locations of rough sleeper hotspots reported within the last 30 days, to be used by outreach workers. Collaborated with Crisis to gain access to CHAIN database. Liaised with GLA and associated outreach workers for R&D of app functionality. The final app was not released into production as the research was part of my master's dissertation.

### ○ Sustainable Food Production in the East of England

2017

*SKILLS USED: Mapping, Spatial Data Analysis, Linear Regression Modelling*

Produced maps of past & current agricultural(arable) activity and its effects on river water quality. Future projections were calculated and mapped factoring in climate change effects and potential limitations imposed on crop production.



## Identifying Nutritional Gaps in Rough Sleepers in San Francisco

2015

*SKILLS USED: Graduated Mapping, Heat Mapping, Spatial Regression*

Identified spatially and statistically, the relationship between rough sleepers, food accessibility and facility availability in San Francisco to investigate if there are nutritional gaps in homeless people depending on where in the city they choose to stay.



## REFERENCES

References available upon request