

# Ellen Houghton

Trainee Level Software Developer

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[annwyl21.github.io/](https://annwyl21.github.io/)

## RECENT STUDY

### *Get into Tech Course 2023, 15-weeks online*

1-week full-time intensive + 15 weeks of 2 evenings (class + tutorial)

January 2023 - April 2023

This bootcamp hosted by QA Ltd offered an introduction into programming covering Agile, Python, JavaScript, Git/ Github, MySQL, Postman, CSS, HTML and finished with our final group project, a website to aid in debt repayment calculations.

During the course I had free access to additional online training resources and took advantage of this opportunity to independently complete Fundamentals training including Linux Command Line and Serverless/ Cloud computing along with Information Security & Risk Management(laws, regulation & compliance), CyberSecurity and an Introduction to GDPR.

The course used Miro boards, Mimeo notes, Webex, and Zoom to engage 16 participants. In the final group project, I contributed to developing an online financial calculator. Using GitHub Projects, we effectively managed our team's progress and ensured project success.

## GITHUB PROJECTS [annwyl21.github.io/](https://annwyl21.github.io/)

### **Data Visualization - Heathrow Weather — A heatmap to visualise historical climate warming trends**

I used open source historical weather station data from the MET office to create heatmaps using Python, Matplotlib and Seaborn. I cleaned the data, used a numpy data grid, learned how to define a centre point for a colour bar and researched the Unix epoch in order to generate several heatmaps.

### **Azure Cognitive Services API - Sentence Translation — A flask service to translate a sentence into 5 different languages.**

I connected to an Azure Cognitive services API from and followed a Microsoft tutorial to build my own translation service. My code takes a sentence, detects the source language then translates the sentence into 5 languages: Spanish, French, Dutch, German and Scots Gaelic. This project taught me how to manage development keys locally as environment variables.

## SKILLS

Python 3.x development

Flask

Pytest

Pandas Data Visualisation

Matplotlib, Seaborn

Regex

Git & GitHub

MySQL & MySQL Workbench

HTML, CSS & JavaScript

Linux Commands

Miro, Mimeo, Webex, Zoom

## CERTIFICATES

**Sky - Get into Tech 2023**  
Apr 2023

**Agile Fundamentals**  
Jan 2023

**Cloud Computing**  
Jan 2023

**JavaScript for Beginners**  
Jan 2023

**IT Security Fundamentals**  
Jan 2023

**Python for Beginners**  
Feb 2023

**Linux Command Line**  
Feb 2023

## CODECADEMY CERTIFICATES

**How to clean data with python**  
Feb 2022

**Getting started with natural language processing**  
Jan 2022

**Visualise data with python**  
Jan 2022

**Learn python 3, Dec 2021**

## EXPERIENCE

### ***Parent & Homemaker***

March 2009 - PRESENT

I raised my 2 children now aged 10 & 14.

### **NHS, London — *Speech & Language Therapist***

September 2005 - March 2009

I worked for 2 central London healthcare trusts, across clinics, hospitals and primary schools. I managed a large caseload, worked directly with patients, clinicians and parents to provide therapy targeting communication skills and trained teaching staff to support children with communication needs.

### **NHS, London — *Speech & Language Therapy Assistant***

August 2002 - August 2003

1 year contract. I created a system to track patient statistics within the department. I also created an image directory, and trained the staff to use scanners and associated software. The directory enabled therapists to cross reference patient needs with the relevant therapy resources.

### **Reed, London — *Administrative Temp***

March 2002 - August 2002

At BAA I wrote a fortnightly internal staff newsletter and at Hounslow Community College, I provided IT support for students using MicroSoft Office in the Computer Resource Suite.

### **Insightful, Berkshire — *Distributor Sales and Marketing***

December 1999 - February 2002

Budget Management and Events planning for MathSoft & S-Plus, Stats Software

## EDUCATION

### **City University, London — *Post-graduate Diploma in Speech & Language Therapy***

September 2003 - August 2005

A 2-year, post-graduate diploma qualifying me to practice and formally register as a Speech & Language Therapist.

### **Greenwich University, London — *BSc Psychology***

September 1994 - July 1997

## LANGUAGES

English (native speaker)

Learning: Spanish