Lily Boughton

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in Lily Boughton

FULL STACK SOFTWARE DEVELOPER

I'm a full stack developer with a particular interest in back-end technologies. I'm adaptable, fast learning and I work well as part of a team. I have had a variety of roles in my career so far, each time trying to incorporate as much coding as possible, so I am excited to be focusing more explicitly on a career in software development. I left my previous role in February 2020 to go travelling (only to be scuppered by a global pandemic!) and have taken the time since then as an opportunity to improve my skills and align better to where I want to be going.

PROJECTS

I have recently finished studying software development at iO Academy. During my time there, I worked on a number of projects, both individual and in a scrum team. I also had the opportunity to be the **Scrum Master** for one of our team projects which was a really rewarding experience. In these projects, I used version control (**GIT**), implementing a team branching strategy, performed **code reviews** (and had my code reviewed), and enjoyed both navigating and driving when **pair programming**. I have included a couple of my favourite projects below but do take a look at my portfolio to see some more of my work.

Object Oriented Programming Project

A Muppets App

Working in a scrum team, I helped build an app to display a collection of Muppets stored in a database using **OOP** in PHP. The app displayed all the Muppets on the homepage, with the ability to search them via optional **GET parameters**, and had the functionality to click through to see more details about each Muppet. When interacting with the database, we employed the **Hydrator/Entity design pattern** to ensure the code followed **SOLID** principles and we built in error handling to provide a good UX. We implemented **namespacing** and **autoloading** and wrote **unit tests** for our classes. We used code reviews to ensure that our code was industry standard following **PSR-12**. I have really enjoyed working in OOP, particularly how it brings structure to the code base.

GitHub: http://github.com/iO-Academy/2021-aug-oopMuppets
Live: http://dev.io-academy.uk/projects/2021-aug/OOPMuppets

React Project

Online Aptitude Test

We built an Online Aptitude Test using **React**. This involved accessing data for the questions from an **API** and then displaying them using a dynamic UI made of reusable components. We utilised the **state hook** and **props** to pass variables around the application and **useEffect()** to trigger functionality, usually when one of our state variables had been updated. We created reusable components to ensure that the app would be scalable and used **Bootstrap** for styling. I found the **component-based** approach of React satisfying to use.

GitHub: https://github.com/iO-Academy/aptitude-test-react
Live: http://aptitude-test.dev.io-academy.uk

MVC Framework Project

A To-do App

In an exercise during the course, I built a To-do App in **PHP** using the **Slim framework**. I designed the architecture for the App, ensuring that it followed **MVC** and that I utilised **factories** and **dependency injection** as required by the framework. The To-do App allowed users to add, edit and search to-dos, as well as mark them as complete and view/delete completed to-dos. I thoroughly enjoyed this exercise as working in Slim was a style of coding that instinctively made sense to me. I have also been able to apply this knowledge and experience in a **cross-team project** where we worked on a legacy code base and had to liaise with other development teams to ensure the project was a collaborative success.

GitHub: http://github.com/lilyboughton/to-do-slim

EMPLOYMENT HISTORY
Maths Teacher Warminster School [CONTRACT]
March - July 2021

Teaching Maths to classes from Year 7 to Year 11, including preparing Year 11 students for their end of year assessments that replaced standard exams due to covid. Form tutor to Year 11 students, responsible for behaviour management and general well-being. Planning, marking, assessing and liaising with parents. This experience highlighted to me how much I enjoy sharing my knowledge with others, helping them understand concepts they find difficult.

Travelling and subsequent period of odd jobs
February 2020 - September 2020

Having quit my job to start six months travelling, I managed 10 days in India before being summoned home by the government due to a global pandemic. I spent this unexpected 'free' time qualifying to teach English as a foreign language (TEFL), doing lots of baking, being the primary child care for my 3-year-old nephew and having a go at challenges on FreeCodeCamp. I also kept myself busy working as a temporary Stock Manager for a builder's merchants and as a Business Analyst for an upholstery school.

Insights and Innovations Manager, allmanhall Ltd
May 2019 - February 2020

Leading the development of our client portal (built using the **Salesforce** platform and **Apex** and **Visualforce** programming languages). Overseeing the maintenance of the Salesforce database. Responsible for business wide efficiency analysis, solution development and implementation. Line managing one member of staff. Lead for internal training of technical skills.

Finance Manager, allmanhall Ltd
October 2017 - May 2019

Running and improving (bringing skills from previous roles) the day-to-day finance function. Line managing (up to) 4 direct reports. Studying for the CIMA Certificate in Business Accounting.

Insights Analyst, allmanhall Ltd
April - October 2017

Creating insightful reporting suites that demonstrate the value we add to our clients. Using **VBA** to write macros to automate the report generation, driving efficiencies where possible. Carrying out price comparisons to show how we could generate savings for prospective clients.

Data Management Analyst, Information Works
September 2015 - April 2017

Cleansing address data using queries in **SQL**. Creating update statements that target very specific data sets using **Regex**. Creating client specific reports using Excel. Customer services.

EDUCATION
Full Stack Track
iO Academy, 2021
https://io-academy.uk/courses/full-stack-track/

BSc Hons Mathematics with Spanish
Royal Holloway, University of London, 2012-2015

A Levels: Maths, Spanish and History
Monkton Senior School, 2010-2012

PROFESSIONAL QUALIFICATIONS
Certified Scrum Master
Scrum Alliance, September 2021
https://bcert.me/sefywowxv

Level 5 TEFL
TEFL Org UK, May 2020

HOBBIES AND INTERESTS
My main hobbies are sewing and upholstery. In 2016 I gained a diploma in upholstery and have enjoyed restoring a number of different projects. I've also sewn too many face-masks to mention! As an alternative to the Lockdown Quizzes, I designed and built a virtual escape room for my friends' Friday night entertainment which I also managed to repurpose and use as a revision game when I was teaching. A pretty perfect Saturday for me would include a nice dog walk and an evening of bowling (where I would probably struggle to score over 50!) followed by a trip to the movies, preferably with a bucket of popcorn.