Alex O'Callaghan

aocallaghan@outlook.com
https://alexocallaghan.com | https://github.com/awocallaghan

Summary

A highly motivated and passionate software developer who enjoys solving problems and acquiring new skills. I have recently completed my bachelor's degree in Computer Science at the University of Southampton, and have experience working in a professional software development environment. In addition to my academic and professional experience, I have further developed my skills by completing projects and experimenting with code in my spare time.

My main passion is web development as I love to create things that can be used to help people in their everyday lives and I believe websites and mobile applications are one of the most effective media for achieving this. I have experience with a variety of programming languages, styles, and frameworks, stay up to date with the latest modern technologies, and have experience with popular **JavaScript** framework/libraries such as **Angular**, **React**, and **jQuery**. In addition, I am comfortable with an array of server-side languages such as **PHP**, **C#**, **Java**, and **JavaScript** (**Node.js**).

Education

2014-2017   **University of Southampton: BSc Computer Science (Hons 2:1)**
Year one:

- Programming 1 & 2
- Algorithmics
- Foundations of Computer Science
- Computer Systems
- Data Management
- Professional Development
- Foundations of Computer Science
- Software Modelling and Design

Year two:

- Programming 3
- Distributed Systems and Networks
- Life in the Cosmos
- Intelligent Systems
- Theory of Computing
- Software Engineering Group Project
- Programming Language Concepts
- Interaction Design

Year three:

- Part III Individual Project
- Global Challenges
- Social Enterprise
- Cyber Security
- Computational Biology
- Game Design and Development

2012-2014   **Queensmead High School**
A Levels: Computing (A), Maths (A), Further Maths (A), EPQ (Computing) (A)

2007-2012   **Queensmead High School**
GCSEs:
13 GCSEs grade A*-B, including English B and Maths A*

Experience

October 2017-December 2017 – Full stack web developer

I worked for three months as a remote full stack web developer leading the development of a new job application platform. My responsibilities included defining, prioritising and completing development tasks to ensure the implementation and deployment of an **ASP .NET MVC** + **Angular** MVP web application on **Azure** meeting the start-up's business and technical objectives.

2016-2017 – Final Year Project (BSc Computer Science, University of Southampton)

As part of my BSc Computer Science degree I developed a data visualisation web application to help University lecturers analyse how students are watching their uploaded video lectures shared via the web. The application used **Node.js/Express** for the webserver, NoSQL database **RethinkDB** for data storage, and **D3 (Data Driven Documents)** and **Vue.js** for the frontend data visualisation graph components.

Summer 2016 – Web Developer at Ascesis Media

During the summer break of my studies I worked as a web developer for digital media agency Ascesis leading the implementation of a **Wordpress** website with bespoke CRM features. My responsibilities included writing bespoke **Wordpress/PHP** plugins and themes, designing and implementing a normalised **MySQL** database schema with efficient queries, as well as being available to support other developers when needed whilst ensuring the project was completed by the deadline to the clients' high standards.

2012-2016 – FootyFeeds

Source code: https://github.com/awocallaghan/footyfeeds-angular

FootyFeeds is a project I first started in 2012 in my spare time using **PHP/MySQL** to display football news articles from **RSS** feeds from around the web. As my knowledge grew I remade the website using **Node.js/Express/PostgreSQL** for the backend and **Angular, HTML, SASS** for the frontend. This project has given me practical experience of using **git** and build tools like **Gulp** in a development workflow and marketing a website using **social media** such as **Twitter** and **Facebook**.

2014 – Map of Crime in London in 2013

See the code: https://github.com/awocallaghan/awocallaghan.github.io/tree/master/crime

This project was part of my EPQ (Extended Project Qualification) for which I chose to develop a map of crime in London in 2013 as I was interested in seeing how technology could be used to help tackle crime. I implemented a web-based interactive map of crime using open data from **data.gov.uk** and **Google Maps API**.

2014 – Website Design for Audbern Ltd

See it: http://www.audbern.co.uk

I delivered a new website design for Audbern Ltd, a ground rent buying company. My responsibilities included liaising with the client to clarify the requirements for the website. This project required me to design a website using HTML/CSS, upload the webpages using SFTP and set up/install a CMS. This work gave me experience in working to a deadline and enhanced my communication skills.

More: http://alexocallaghan.com/projects/