Ben Gregory

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# Professional Summary

* I am an Engineering graduate with a 2:1 BEng degree who has since decided to follow a career in software development. I have been involved in several software projects, designing full stack applications for a range of purposes and routed in multiple languages. I have also made use of DevOps software and Cloud-based development and implemented agile techniques in the way I work on group development projects.

## Qualifications

### The University of Sheffield | Mechanical Engineering BEng | 2:1 | 2015 - 2018

## 1st Year result: 74% | 2nd Year result: 65% | 3rd Year result: 66%

* Relevant Modules:
* Control Engineering for Mechanical Engineers - Computational and Numerical Methods
* Finite Element Techniques - Mathematics (Computational Methods)
* Engineering Mechanics - Essential Mathematical Skills and Techniques
* Project Management and HRM - Mathematics for Engineering Modelling

### Queens Park High School, Chester, CH4 7EA | 2008 - 2015

* A Level Mathematics (A\*), A Level Chemistry (A), A Level Physics (B), AS Level Geography (B).
* 14 GCSE’s (grades A\* - B).

## Relevant Employment

## Technology Graduate | Mastek | May 2019 -

* After four months of training in software development, I had gained the ability to develop full stack applications routed in both Python and Java/Angular. I have also developed agile skills when working in team projects and began to make use of DevOps technologies such as Azure.
* During the training period, I developed my skills in multiple languages, including HTML, CSS, Python, Angular, Java, JavaScript, JSON, TypeScript, MySQL. MongoDB and Selenium.
* I worked to create several full stack apps in agile projects and used sprints and standups to improve project efficiency.
* After training, I worked on a project to renew the way a company presents their job roles, the skills of those roles and the availability for progression of existing employees. There, I worked on securing and retrieving sensitive information in the cloud using Azure key vault. I also worked to implement features full stack in the application.

## Projects

## NHS Data Management (Client Side) | August -2019

* I currently work on client-side with NHS BSA, which I am using as an opportunity to expand my repertoire of languages and skills.
* I have been working on testing an AWS and Java based data-conversion application still in development. It has allowed me to work with AWS and compare with Azure. I have also become familiar with a range of new Java plugins.

## Job Board Web App (In House) | August-September 2019

* As part of an agile team, I developed a Java-Angular app that was designed to allow users to view jobs on a job board.
* Features we implemented included a role summary dashboard with Google Graphs, the ability to add personal skills and see jobs with the same requirements, URL validation to ensure ones data could only be edited when logged in.

## Medical Application | June 2019

* I worked as part of a small team to develop a full stack Python app that focused on two user stories – doctors and patients. Both could login to the system, access medical data relevant to the user and perform operations on the database depending on their admin privileges.
* We made use of agile techniques to keep the project on schedule
* We worked full stack to create a Python app that used MySQL in the backend. We made use of JINJA to access HTML form data and bootstrap styling in CSS.
* We implemented features such as data validation, admin validation and frontend calculations on the data.

## Engineering Projects

## Mesh Analysis Programming | Jan 2018

* I was tasked with designing and coding a mesh using MATLAB, consisting of coding a structure of nodes and mesh elements in a matrix. Each node was programmed in natural coordinates, which were used to find ‘shape derivatives.’ This then had to be converted into cartesian coordinates through code.
* I then programmed the mesh to undergo stress testing in the software and created plots of the result, coding for different element-counts to refine detail.
* Convergence was tested for by analyzing key nodes at different element counts.

## Heat Conduction Numerical Study | Jan 2018

* I was to write a piece of code in MATLAB that would solve the differential equation for heat conduction.
* I used the Crank Nicholson scheme, implemented in the code to give an approximation of the conduction, setting the boundary and initial conditions up. This was then compared with the exact numerical solution graphically.

## Smart Homes | Jan 2017

* The ‘Smart Homes’ project was a project that I, as part of a team of six, had to come up with a piece of technology for the home befitting the smart technology era.
* I encouraged the team to use various skills that I was aware of to make the most out of group discussions and provide everyone with a voice.
* I took a large part in group brain storming and provided multiple ideas that were built upon.
* At the end of the process, I co-presented our solution to a small audience including industrial experts and took questions about the intricacies of our idea.

## Non-Academic Employment

## Volunteer | Hope House | Oct 2013 – Nov 2014

* I developed my interpersonal skills from working with other volunteers and customers
* I improved managerial skills from leading a small team

# Interests

* I took four months to travel Europe, developing my social skills, becoming more independent, and integrating with new cultures.
* I enjoy working with programming – I have made websites from scratch using HTML and CSS. I have also used the Python and C languages independently.
* I enjoy writing about my travels, music, and other topics that interest me.
* I regularly draw and sketch, both as an artistic release and to put to paper design ideas I have.

# Referees

Available upon request.