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Personal Statement

A recent tech degree apprentice graduate with a strong engineering foundation, passion for data visualisation, and eagerness to delve further into the field of analytics. Able to provide proficient time-management, problem-solving skills and attention to detail developed from 4 years of professional consultancy support on top of full stack web-app development, as well as a prior 3 years of physics labs in education. Excited to seek a technical position that can allow the next steps of personal and professional growth whilst contributing effectively towards a company's objectives.

Work Experience

Buro Happold – Data Analyst and Simulation Engineer **Sept 2019 – Present**

- Updated and developed features for a legacy, client facing **Polymer2** (**JavaScript**, **HTML**, **CSS**) web application, allowing it to branch off from the team as an independent company called SmartViz.
- Designed and developed a new, more optimised, secure, single page, crowd visualisation web application using **Django**, **PostgreSQL** and **Angular**, hosted on **Microsoft Azure** with **GitHub CI/CD** features and backend development within a **Docker** container, returning a high potential in-house service.
- Built the frontend for a **digital twin** of a high school incorporating sensor data with variable parametric scenario modelling using **React** and **Bentley's iTwin Platform,** leading to a successful, live, in-person demo.
- Streamlined the simulation "data outputs to dashboard" workflow using **Python**, increasing efficiency, and allowing a completed simulation model to be visualised on the web, potentially as soon as within the hour.
- Reduced interaction bugs for the in-house simulation client based on **C#** and **WPF** during platform upgrades.
- Created 3D visual models of spaces, using **Rhino3D,** for more captivating presentations and dashboards.
- Devised **Grasshopper** custom scripts to allow for more complicated simulation scenarios, enabling increased confidence in completing projects outside the normal.
- Supported pedestrian flow consultancy with visualisation outputs, analytics, and reports across 25+ projects. Many of which have returned for continued work. Usage of **Microsoft Office: Word**, **Excel**, **Powerpoint.**

KFC – Team Member **Sept 2014 – Jan 2018**

- Awarded Staff of the Month twice and Recognition for Respect.

Additional Technical Projects

- Built a temperature sensor system using Raspberry Pi, **Node-Red**, and electronic components.
- Visualised historical Olympic dataset with dynamic graphs, based on filters, on the web using **XAAMP** stack.
- Console app for expense and employee logging system using **C++**
- Created a **Linux** mini home server using an Intel NUC for entertainment such as game hosting and movies.

Education

University of the West of England **Sept 2019 – June 2023**

1.1 Honours BSc Degree in Digital and Technology Solutions

Online Database Management	84%	Data Analysis	77%	Project Management	75%
Final Year Synoptic Project	77 %	Object Oriented Design	72%	Cloud Computing Platforms	70%

Queen's University Belfast **Sept 2015 - June 2019**

2.2 Honours BSc Degree in Physics

Mathematics for Physics 1	89%	Mathematics for Physics 2	76%	Final Lab Project	76%
Computational Method	82%	Computational Modelling	84%		

Regent House Grammar School **Sept 2008 – June 2015**

A-Levels:	Maths A*	Further Maths A	Physics B	Chemistry C
GCSEs:	Maths A*	Additional Maths A*	English B	

Interests outside of Tech

I like exploring new things and always try to focus on self-improvement. I have earned a green belt in Tai-Jutsu during University, participated in peer mentoring schemes, learnt basics of piano and guitar, and enjoy playing games.