

James Haworth Wheatman

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JamesDHW



Web/ Python/ Android

Professional Profile

At the University of Sheffield, I developed my mathematical, analytical, and problem-solving skills whilst studying Physics, applying these skills through various data driven projects in Python and Android apps in Java. I am continuing to grow my technological expertise at University College London, where I am studying a Master's in Computer Science.

I am a thorough and thoughtful worker, who always strives to produce exceptional output by taking the proper time for preparation. I also enjoy being able to benefit from a fast-paced environment, in which I can pivot my ideas through collaboration with others. I am most impassioned when I can take ownership of a project and see my direct impact on the work. I am looking to take on a challenging role, where I can grow as a person and as a professional.

Education

University College London – MSc Computer Science (Ongoing).	2019-Present
The University of Sheffield – BSc Physics, First Class (Hons).	2015-18
A Levels – Cardinal Newman College, Preston:	2013-15
Maths – A	
Physics – B	
French – C	
Extended Project Qualification – Distinction	
Critical Thinking – B	
GCSEs – Longridge High School:	2008-13
11 A*-B GCSE Qualifications including English, Maths, and Sciences.	

Professional Experience

Student Residence Advisor, University College	September 2019-Present
Emergency responder and fire marshal for university accommodation. Pastoral and welfare support provider to undergraduate students.	
Programme Administrator, NCS – The Challenge	June-August 2019
Responsible for resource management and tracking. Created processes to streamline workload for colleagues.	
Content Developer, Yagadi Ltd.	November 2018-June 2019
Developed training material for a natural language understanding system. Designed and managed company website and concept demonstration Android application. Created demonstrations of software.	
Founder & Course Tutor, Code Creators	October 2017-July 2018
Designed, implemented, and delivered two taught Python courses for undergraduates and PhDs. Achieved financial sustainability by implementing entrepreneurial ideas and reducing the costs of creating a curriculum.	
Student Ambassador, The University of Sheffield	November 2017-March 2018
Contributed to the department community by meeting and advising prospective students. Saved the Head of Admissions time by sharing my expertise to prospective students.	
Vice President & Technology Director, Enactus Sheffield	November 2016-July 2018
Facilitated students with their self-development and progression through the company from the admissions process to selecting students for leadership roles. Generated revenue for the company through managing two start-up social enterprises. Developed software in Python in a team using GitHub. Reduced company costs by building and managing company websites and server space. Successfully took responsibility for turning around a failing business project.	

Core Skills

Project Management & Leadership

- Directed Enactus Sheffield as Vice President of the company.
- Developed with software engineering management methods such as Agile and UML.
- Learned to switch between different management styles for different situations.
- Led four project teams as Technology Director of Enactus Sheffield.

Collaboration

- Involved in multiple project teams within Enactus Sheffield.
- Worked with other students in tutor sessions to communicate complex concepts.
- Delivered professional scientific research projects through working as a part of a team.
- Able to communicate effectively with others and come to compromises where necessary.

Problem Solving

- Solving problems individually and in groups in professional and academic circumstances.
- Experienced in analysing complex physical problems and finding solutions.

Patron of Learning

- Developed a growth mindset which is taken to all areas of work.
- Tutored junior students in both Maths and Physics.
- Helped others in various areas of self-development and study.
- Interest in exploring new skills and areas of expertise.

Programming Languages

Web Technologies

- JavaScript/ HTML/ CSS.
- Node.js/ Express server development.
- MySQL/ MongoDB database management.
- Cross-platform mobile development with Ionic using Angular.

Python

- Proficient in Python for data analytics within scientific projects.
- Collaborated on an OpenCV computer vision project in GitHub.
- Manipulated artificial neural networks using Scikit Learn, FastAI, and FBProphet libraries.
- Tutored undergraduate and PhD students an eight-week introduction to Python bootcamp.

Android (Java)

- Created apps using Android Studio which are published on the Google Play Store.
- Developed online platforms using Google's Firebase service.
- Developed the front-end for a natural language understanding concept demonstration.

Further Achievements

2018 Winner of Barclay's Next Reality national technology competition.

2018 Finalist in Kelly OCG STEM Future Leader competition.

2018 Finalist in the Accenture Technology for Good competition.

1st Dan Black Belt in Taekwondo

PASS Physics scheme:

- Tutored first year Mathematics for Physicists.
- Tutored foundation year Physics modules.

Third Year Project (TATA Steel):

- Iteration of product design through solving physical problems.
- Built a model building to analyse heat loss and create products to passively heat buildings.
- Scientific report and presentation given to explain the research findings to the client.