James Haworth Wheatman

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Python/ Java/ Mobile/ Web

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 continue to grow my technological expertise at University College London, where I am completing a master's degree 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 in which I can grow personally and professionally.

Education

University College London – MSc Computer Science, Distinction (Expected).   **2019-2020**

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 London   **September 2019-May 2020**
  Pastoral and welfare support provider and emergency responder in undergraduate accommodation.

Programme Administrator, NCS – The Challenge   **June-August 2019**
  Managed resources and streamlined processes to reduce colleagues' workloads.

Content Developer, Yagadi Ltd.   **November 2018-June 2019**
  Developed training material and demonstrations for a natural language understanding system.
  Designed and managed company website and concept demonstration Android application.

Founder & Course Tutor, Code Creators Sheffield   **October 2017-July 2018**
  Designed, implemented, and delivered two taught Python courses for undergraduates and PhDs.
  Achieved financial sustainability through effective entrepreneurship.

Student Ambassador, The University of Sheffield   **November 2017-March 2018**
  Represented the faculty and shared expertise to advise prospective students.

Vice President & Technology Director, Enactus Sheffield   **November 2016-July 2018**
  Managed 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.

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.

Tutored undergraduate Physics and Mathematics for Physicists.

Relevant Projects

IBM Watson – Resume analysis (Postgraduate):
- Utilising IBM Cloud machine learning tools, Node RED, and continuous delivery with git.
- Generating a personality profile from an applicant's resume.

Numberfit – Engaging primary pupils with maths through exercise (Postgraduate):
- Led a team in creating a cross-platform mobile app with the Angular Ionic framework.
- Single and multiplayer maths quiz which integrated exercise in an accessible way.
- Implemented backend through Node JS via Amazon Web Services (AWS).

TATA Steel – Passively heating and retaining heat in buildings (Undergraduate):
- Modelled heat loss to design products to passively heat buildings.
- Iteration of product design through solving physical problems.
- Scientific report and presentation given to explain the research findings to the client.

Particle Accelerator – Identifying false positives in data (Undergraduate):
- Developed algorithms to identify and remove false positives from high-dimensional data.
- Recreated results with machine learning techniques.

Programming Languages

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.

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

Familiar with UNIX operating systems

Core Skills

Project Management & Leadership
- Directed Enactus Sheffield as Vice President of the company.
- Led using 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 students in Maths, Physics, and Computer Science.
- Interest in exploring new skills and areas of expertise.

References available on request.