Harrison Cooper

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Education and Qualifications:

University of Sheffield, MComp Computer Science with Year in Industry, 2015 - 2020
My course exposes me to a wide range of programming languages such as **Java** and **Python**, with a strong emphasis on applying these skills in large scale team projects.
Currently predicted a 1st and was awarded an academic scholarship on entry to the university.
Modules that intrigue me:
- Software Hut, **1st** – I enjoyed working in a team to produce an application for the Universities Admissions Service that decreases admin work during results week.
- Bio-Inspired Computing and Robotics, **1st** – Using Python to model the effects of forest fires showed me how programming can be used to model critical real world situations.

Reading Blue Coat School, 2008 - 2015
A-Levels: Math's (A), Physics (A), Biology (A)
GCSEs: 6A*'s Including Math's, English and Science, 3A's, 1B

Relevant Experience:

1st Place at Hack Med, Major League Hacking, April 2017
I was the lead developer during an international Hackathon, using Python to develop a way of diagnosing antibiotic resistant diseases in sick patients and sending the results to their Doctor in real time. My contributions included:
- Working with Industry Experts; Oxford NanoPore Technologies to fully integrate their DNA sequencer, MinION, with my program ARAlert.
- Working with Nexmo to develop custom code to take the results from ARAlert and email / text them to the patients Doctor.
- Demoing my solution to the Hackathon attendees and answering questions from the Industry Experts.
More information can be found at www.devpost.com/software/dnamazing

Engineering You're Hired! January 2017
I was part of a team of 5 multidisciplinary engineering students tasked to find a solution for Autonomous Inspection and Early Detection of Cracks and Corrosion in a Nuclear Pressurized Water Reactor.
- In charge of feasibility analysis of data retrieval, handling and storage from the video and ultrasonic sensors, including using image recognition to detect early signs of cracks.
- I delivered my findings to the other teams and industry guests, answering their technical questions. My team was awarded "Best Pitch for Funding".
- Produced Gantt Chart showing total time required for and cost of the project.
In first year, I took part in a similar Engineering Challenge week developing a solution for real-time air quality monitoring in Bambui, Africa. I lead my team on presentation day, achieving the professional behaviours award.

Additional Experience:

Manager, Elevenses Sandwich Shop, Farnborough, July – September 2017
During my time at Elevenses I implement several new procedures, increasing the company's sales and streamlining day to day running.
Some of my implementations include:
- Built www.elevenses.net, allowing both on-foot customers and executive buffets to be ordered online for collection or delivery.
- Introducing face recognition clocking in system, which decreased admin workload.
- Created timelines for employees to follow, increasing their workplace efficiency.
- Liaising with Peninsula to create employee contracts and implement workplace pensions.
- Sourcing and Negotiating with new suppliers to find the best deals to increase Gross Profit.

Skills:

Computing – During studying for a Degree in Computer Science and taking part in external coding projects I've found myself well versed in several programming languages, including **Python**, **Ruby**, **MySQL**, **HTML**, **Java**, **CSS**, **Haskell**, and **Git**.
Problem Solving – Engineering You're Hired posed a rather different and more challenging problem than what I was used to at University. I found solutions to data transfer around a Nuclear Reactor and Storage and Mathematical Analysis of said data.
Teamwork – During HackMed I worked with a group of 4 scientists from other Universities, we had 24 hours to devise a solution to a problem facing the medical industry. During team discussions, I made sure to bring in the quieter members of the group and explore their ideas with the team.
Communication - During my course, I have developed strong written and verbal communication skills, by actively taking part in client meetings and delivering presentations. In addition, during my time as general secretary for the university strength sports club, I sent out weekly emails to members informing them of the events occurring that week.
Other - I hold a full, clean driving licence, and am a car owner.

Interests / Activities:

University of Sheffield Strength Sports Club
Active member since I started University, obtaining the position of General Secretary, 2016 - 2017.
My responsibilities included:
- Organising committee meetings.
- Coaching new and current members.
- Implementing a new website for the club to increase club outreach.
- Establishing a modern e-mailing system to keep members up to date with the club.

I came Third at the Northern Universities Powerlifting Competition.

Kayaking
I'm a fully qualified level 3 sea kayaker, having led several expeditions around the south coast of England. These require careful planning and good communication between the group.

References:

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