Bibek Khattri

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Summary

I am an undergraduate student at my final year of studies at Birmingham City University studying Computer Science. I am confident using programming languages such as Python, Java, HTML and CSS. I also have knowledge using Photoshop, After effects and Sony Vegas. I enjoy working on hardware related projects that consist of using Raspberry pi and Arduino. I am seeking an experience where I can contribute, confidently innovate and develop my knowledge.

Areas of expertise

- **Programming Languages:** Java, Python, C#, F#.
- **Web Development:** HTML, CSS, JavaScript, Php. Through my course I have growing interest around Web Development.
- **Sony Vegas Video Editing**: I have self-studied this program and used YouTube tutorials to help me. I have also worked on projects and used Sony Vegas to make it successful.
- **Raspberry Pi**: Confident understanding, as we used this to create an autonomous recycling bin for my module, Innovation project
- **Arduino**: Confident understanding, as a demonstrator I can support students when using Arduino to make circuits

Education
Birmingham City University (Present-2020)
BSc (Hons) Computer Science
Modules covered:

3rd Year Modules- Expected First Class
- **Individual Honours Project:** Focused on technology which helps visually impaired or blind to read. Use of Computer Image processing, text to speech, python and Raspberry pi used for this project.
- **Artificial Intelligence and Machine Learning:** Built a classification model that will help doctor better predict, if a patient has liver disease use of python.
- **User Experience Design:** Worked on designs approaches to make applications more accessible for people who suffer from visual impairment.
- **Mobile and Wearable Application Development:** Used android studio to build a fitness app, with the use of Java.
- **Cloud Computing:** Deployed a basic application into AWS (Amazon Web Services) and explored all the different services available within the domain of AWS.

2nd Year Modules – First Class
- **Discrete Mathematics and Declarative Programming:** Learnt the difference between various paradigms of programming. Made a game (Tic-tac-toe) with functional programming using F#.
- **Cyber Security:** This module has provided me with the understanding for security considerations required in the design of software. Also, knowledge on cyber security

threats and current challenges to application and system developers.
- **Object Oriented Programming (Java):** This was introductory to Java. From the basics I have learnt the basics of java in the module and created a text-based game.
- **Operating Systems (Linux):** Learnt how to use a Linux based system and how to effectively use the command line, although I haven't had enough experience, I understand the basics and willing to further learn on my own time.
- **Database and Web Application Development (PHP & MYSQL):** Used PHP to create a dynamic website, I have understood of fundamentals of databases and how they can be utilised.
- **Software Design:** From this module I have learnt how to construct models of requirements and designs, synthesise implementations from design models, and apply software design patterns.

1st Year Grade – First Class
- **Computer Programming**: Used Python and developed a Banking System. I gained a better understanding of the concepts of programming,
- **Data Structures and Algorithm**: Studied how to solve algorithms using an appropriate data structure.
- **Computer Systems**: In this Module we were given the chance to explore different hardware. We also built small circuits and programmed it by Arduino.
- **Web Design and Development**: The requirement of this module was to build and develop a website using HTML and CSS.
- **Network Fundamentals**: In this module I gained the knowledge of building and designing a basic network system. I used packet tracer to test the principles and techniques.
- **Innovation Project**: This was a group project; we were required to build something that would have a positive impact in the environment. I benefited from computer systems as it had helped me to understand the different hardware's that could aid the success of our project.
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Colton Hills Community School (2017)
A Levels: Applied Science: A*, IT: A*,3D Design: C, Art and Design: B

GCSES: 1 D*, 2 M's, 1 P, 3 C's

Experience
Birmingham City University Demonstrator (September 2018-Ongoing)
- Able to develop excellent communication skills by supporting first year students with problems they face while completing their lab tasks
- This role has allowed me to develop my confidence and developed my knowledge around different hardware and software problems while assisting lectures to do the presentation and deliver learning materials.

Cosmos Restaurant Wolverhampton Bentley Bridge (October 2015-2018)
- Developed excellent communication skills by handling customer enquiries and ensuring that they had an enjoyable experience.
- Developed my teamwork skills, while we collaborate and help each other with our jobs.

British Army Reserves (April 2015-Ongoing)
- Army has taught me to understand what my responsibilities are and how to tackle them in effective manner.
- I have also developed quick-thinking through solving problems at various environments.
- I have also developed mental robustness which helps me complete the challenges I face in my studies.

Interests
- Studying in BCU has broadened my knowledge of programming and their concepts. I am now confident using programming languages such as Python and Java.
- I also have a growing interest around making games with Unity. I am currently making a simple game and I am planning to make more complex games soon.
- I enjoy doing small robotic projects with Arduino and raspberry pi.
- Web development and mobile app development have been my main interests and I am currently planning on a project to start on the summer.

Reference
References available upon request.