

Joshua Gardner

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Website: joshw-g.github.io/home/

Professional Profile

I have experience in Python, C++, working with many aspects of Java (Sockets, GUI, Junit, Maven, Apache Tomcat), Python scripting, Database management using MySQL & SQLite, SQL with Java & Python back-end. Image Processing in OpenCV and MATLAB. Research and technical skills in Object detection, Deep and Machine learning in TensorFlow and Keras. Web development with HTML, CSS, JavaScript. Graphical work in OpenGL/GLSL, Processing, and agent-based modelling in Netlogo.

Projects/Portfolio

I have developed multiple projects/applications both individual and teamwork. Some of the projects I have worked on include my dissertation project which was a part of a multidisciplinary research study into understanding the kinetics of the human gastric emptying, where my role was to test and prove the viability that a convolutional neural network could be trained to detect specific food in MRI scans of the stomach and the effectiveness of it. I presented the research at CGVC 2020 where the paper is published. An image editing application akin to paint.net written in C++, QT and Open CV. A Python app to find the nearest doctors in the Gwynedd area.

Projects Available @ <https://github.com/JoshW-G> Website @ joshw-g.github.io/home/

Skills

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|----------------------|---------------------|-------------------|
| • C/C++ | • JavaScript | • MATLAB/Simulink |
| • Java | • TensorFlow, Keras | • Haskell |
| • Python | • HTML | • NetLogo |
| • MySQL, SQL, SQLite | • CSS | • OpenGL |

Educations & Qualifications

BSc (Hons) 2:1

BSc Computer Science

Bangor University (*Prifysgol Bangor*) 2020

MSc Advanced Computer Science at University of Birmingham 2020 -