Joshua Gardner | Software Developer & Post Grad

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Professional Profile

I have developed an understanding of multiple languages and their applications, having applied these skills to work on several different projects using languages like C++, Java, Python, and their extensive libraries, integrated them with databases in MySQL & SQLite and UI tools such as QT 5 and Swing. Capable of working on backend and front end with web development in HTML, CSS, and JavaScript as well as testing, dependency, and version control with tools like Maven, Junit, and Git.

I am capable of applying myself within group projects of varying technical skill and background, performing tasks effectively, supporting teammates, developing ideas and when needed taking charge to steer the team in the right direction with designs, projects, and decisions. I consider myself adaptable, quickly understanding problems and learning new languages and applying myself to find solutions.

I also have developed skills and understanding with machine and deep learning techniques, having taught myself how to use TensorFlow for my undergrad dissertation which led me to work a research paper presented at CGVC 2020 involving a multidisciplinary study of food digestion using CNN's for object detection

Projects/Portfolio

Projects Available @ joshw-g.github.io. Examples:

- Object detection in MRI scans (Python, TensorFlow)
- Image Editing App (C++, QT 5, OpenCV)
- Machine learning algorithm optimisation w/ classification of Fashion MNIST dataset (Python, Scikit-Learn, Jupyter Notebook)
- Closest postcode of GP's, schools etc (Python, SQLite)

Skills

- Full stack Development
- UI/UX
- Database Management
- Git version control
- Machine Learning
- Deep Learning

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Languages

- Java 8+
- C/C++
- Python 3
- HTML5 / CSS3
- JavaScript
- MATLAB
- SQL
- XML

Software

- MySQL/SQLite
- Scikit-learn
- TensorFlow
- OpenCV
- QT 5
- Swing / JavaFX / AWT
- Maven, JUnit
- OpenGL
- Apache Tomcat

Educations & Qualifications

Currently studying MSc Advanced Computer Science at University of Birmingham

BSc (Hons) 2:1   BSc Computer Science Bangor University 2020

Accomplishments

Presented research at Eurographic's Computer Graphics & Visual Computing 2020:
"Recognising Specific Foods in MRI Scans Using CNN and Visualisation"

https://diglib.eg.org/handle/10.2312/cgvc20201145