Thomas B. **Clarke**

COMPUTER SCIENCE STUDENT · SOFTWARE DEVELOPER

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Profile

My degree in Computer Science is allowing me to explore my interests and fuel my passion for technology. I am task focused, have a positive attitude and an industrious work ethic, all of which are important for my degree and work. I have shown I can adapt to new environments quickly and deal with problems effectively, skills which I enjoy developing further when on new projects.

Education

University of Birmingham   *Birmingham, UK*

BSc HONS IN COMPUTER SCIENCE WITH INDUSTRIAL YEAR   *September 2014 - July 2018*

- **3rd Year Modules**: Final Year Project in Natural Language Processing, Distributed and Parallel Computing, Intelligent Data Analysis, Intelligent Robotics, Computer-Aided Verification, Nature-Inspired Search and Optimisation, Networks
- **2nd Year Modules - 1st Class - Year average was 80%**: 2nd Year Modules: Software Systems Components 95%, Functional Programming (Haskell) 96%, Professional Computing 81%, Mathematical Techniques for Computer Science 73%, Computational Vision 72%, Models of Computation 61%, Team Project 73%, Computer Systems and Architecture 74%, C/C++ 86% and Computer Security 81%
- **1st Year Results - 1st Class - Year average was 85%**: Robotics 100%, Software Engineering 78%, Software Workshop Java 95%, Language and Logic 85%, Web Programming 88%, Foundations of Computer Science (with OCaml) 82%, Artificial Intelligence 77%, Information Engineering 73% and Multimedia Data 70%

John Cleveland College   *Hinckley, UK*

GCSEs AND A-LEVELS   *September 2010 - August 2014*

- **A Levels**: Mathematics A*, Physics A, I.C.T. A, AS History C, EPQ A
- **GCSEs**: 3 A*s, 6 As, 1 B and OCR Level 2 National Double Award in I.C.T. Distinction

Technical Skills

Languages	Java (EE), JavaScript, Python, SQL, PHP, C/C++, Haskell, MATLAB
Software	MySQL, Oracle SQL, Hibernate, JBoss EAP, Spring MVC, Maven, D3.js, ROS, Git, SVN, BASH, Windows, Linux, Chrome Extension Building
Other	• Preferred IDEs: Eclipse for Java, PyCharm for Python, Visual Studio for supported project types • Programmed in robotics using LeJOS (Java based) and ROS (Python based) • Basic knowledge of Android, Visual Basic and Unity game maker • Experienced mobile development using PhoneGap and Meteor, in industry producing IOT applications • Experienced agile and SCRUM development practices, in both personal and industry projects

Work History

CGI   *Birmingham, UK*

SOFTWARE DEVELOPER *Industrial Placement*   *July 2016 - July 2017*

I build prototype internet of things mobile applications with PhoneGap and worked on the DCCA project which served for 5 of the big 6 energy companies. The application managed request orchestration for smart meters and was built for deployment in a JBoss EAP environment. I was heavily involved in front end and back end support development (approached with an agile methodology), and given a large responsibility for managing the production of the DCCA's Diagnostics component (with SCRUM based approach).

Majestic

Birmingham, UK

SOFTWARE DEVELOPER *July - September 2015*

Using various web technologies and utilising D3.js, myself and a team of 2 other developers used the Majestic API to create innovative data visualisations. The work can be seen at `https://labs.majestic.com/2015`. I also represented Majestic at Leeds Hack 2015.

Hinckley Homeless Group

Hinckley, UK

WEB DEVELOPER *(Voluntary Charity Work)* *September 2015 (continuous support)*

I created a new website for Hinckley Homeless Group to replace their original one using an agile approach to development. Visit the site `http://hinckleyhomeless.com`.

Crane Electronics Ltd.

Burbage, UK

SOFTWARE TESTER *Summer 2014*

Exploring and testing a range of products to identify faults or problems and reporting them to the software engineer for revision. The main project was black box testing on an Android based device.

Spar

University of Birmingham, UK

STORE SUPERVISOR *(promoted from sales assistant March 2015)* *October 2014 - March 2016*

I handled a large amount of responsibility ensuring the shop operates smoothly, gained skills in time management and delegation, and worked as an integral team player.

Woodlands Nursery & Garden Centre

Leicester, UK

GARDEN CENTRE ASSISTANT *October 2013 - January 2014*

I gained a set of core skills based around fast-paced customer service and communication.

Achievements and Interests

- Being the **main developer on CGI's DCCA Diagnostics** component, having the responsibility of independently maintaining and managing consistent communications to upper management and directors to cover the product's development, testing and deployment for reliable use.
- While at Majestic our best project used data on 50,000 Twitter accounts and displayed them in a sunburst diagram and I also worked on integrating Twitter into the project. The project was received excellently, and they used their trade mark **'Social Explorer'** on it as well as pushing it out as a headline on their blog and newsletters.
- 'The Majestic Universe' project achieved a place in the long list at the Kantar **Information is Beautiful Awards 2015**.
- Attending various hackathons:
  - During **BrumHack** our pair created a Chrome plugin (that used Node.js and IBM Watson as a backend) that detected negative or offensive text and images in webpages and replaced them with cat facts and pictures respectively. This won our team MLH's #HackHarassment prize.
  - At **HackKings** our team used Pusher's technology to create a Google Chrome Extension allowing users to share their current webpage live with other users and forward actions (such as scrolling). We won Pusher's prize and came runners-up overall out of 23 projects.
  - **AstonHack** where our team used IBM Bluemix to create an instant messaging Meteor app that used features of Watson to make chatting online more entertaining.
  - I **represented Majestic at Leeds Hack** 2015 as a sponsor, where I gave a short introductory presentation on Majestic, and worked with the attendees on using the Majestic API in their projects.
- Member of the Computer Science society and the Games Development society at university.
- Being a **proactive** player in a team competing in the Game Development Society's game jams.
- **Tutored students** in GCSE Computing and A-Level Mathematics.
- Various extra circular activities including:
  - An Extended Project Qualification (EPQ) based on creating an Android Application
  - A Silver Crest Award based on Astronomy
  - A v50 volunteering award
- Socialising, live music and travelling.