THOMAS GOODMAN AMBCS

BSc Computer Science Student - University of Birmingham

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📍 **Birmingham, United Kingdom**

EXPERIENCE

Freelance Software Developer

Millennium Point

📅 06/2017 - 08/2017   📍 Birmingham, UK
🔗 http://www.lincgraph.co/

I put together and worked with a team on behalf of Millennium Point to design and develop a piece of data visualisation software that connected guests at an event based on their interests.

Software Developer

Vanti

📅 07/2017 - 09/2017   📍 Birmingham, UK

A 3-month placement at Vanti - a company specialising in Audio-Visual integration and smart buildings. Working on mainly the internal services (Java, Docker, NodeJS & Thrift) and with AV equipment/setup.

- Developed three internal projects to help the company - a suite of slack bots, a check-in system and a 'mood service' to keep track of (and feed back) the current mood of the office.
- Worked alongside the team, helping with the Royal Birmingham Conservatoire, a new multi million pound venue space in the heart of the city, with Vanti taking the helm on all AV solutions and installation.

Analyst/Developer

Majestic (Majestic SEO)

📅 12/2016 - 12/2016   📍 Birmingham, UK

Following a successful summer internship, I was contracted by Majestic for a week to further work on a joint metric that I had done some work on over the summer.

- Independently worked to unify SEO metrics to create a single metric that accurately represented the data sets that the company has. This is being used by the internal analytics team to impact almost the entire client-base.
- Presenting the final result to the executive board and ensuring that a full handover of all work was conducted.

Freelance Network/Encoding Engineer

ESL UK

📍 London, UK

I worked with ESL UK on the network/stream aspect of the Clash Royale World Championships at the Copperbox Arena in London.

- Working as part of a team that ensured that a stream was going out in 9 different languages to over 250,000 concurrent viewers.

EDUCATION

🎓 **Computer Science - 2nd Year - 72% Overall**
Top Module: C/C++ - 85%

🎓 **Computer Science - 1st Year - 81% Overall**
Top Module: Language & Logic - 94%

📄 **A Levels/AS Levels**
A*AB (Computing, Maths, Chemistry)/ AB (Music, Further Maths)

ACHIEVEMENTS

⭐ **Lead Organiser - HackTheMidlands**
I founded, and headed up the organisation of a national, inclusive hackathon (see hackthemidlands.com). The event has ran for two consecutive years now, attracting around 350 attendees overall.

👑 **CSS UoB President (@CSSBham)**
I was the president of the departmental society for computer science at the university for 1½ years, and organised in excess of 50 events in that time.

👁 **Clarifai Developer Evangelist**
I was selected as a Clarifai Champion in Autumn 2016, which is their initiative to shape upcoming developer evangelists.

🏅 **Hackference 2016 Winner**
Support for Amazon's Alexa AI on Pebble devices (see https://t.co/MKtskw4tYK).

EXPERIENCE

Undergraduate Demonstrator
University of Birmingham - School of Computer Science
📅 09/2016 - Ongoing 📍 Birmingham, UK

Following my first year at university, I was selected to be a module demonstrator because of my overall grades.

- I am predominantly responsible for mentoring the Software Workshop (Java) module, which consists of basic Java, as well as more advanced topics such as Threading, Sockets and Generics.
- Other modules include Language and Logic, Introduction to AI, Functional Programming, Data Structures & Algorithms and Robotics.
- Effectively teaching and/or mentoring content to students who are often completely new to the concepts, helping them to understand, and further, to learn them.
- Working alongside other demonstrators to ensure that help is provided quickly and efficiently.

Software Developer
Majestic (Majestic SEO)
📅 07/2016 - 09/2016 📍 Birmingham, UK
🔗 https://labs.majestic.com/2016

A 10-week placement at Majestic, developing innovative ways to represent and interpret their data. Mainly working on frontend & UX, but also working on some backend too. Predominantly HTML, CSS & JavaScript.

- Part of an autonomous team, and the joint-architect of a few innovative data visualisations, with the overarching brief of "showcase the data that Majestic has".
- The data visualisations created were used shortly after by the marketing team with the largest clients of the company.

Project Lead - Ace of Spades
JaGeX Games Studio, Cambridge
📅 06/2014 - 09/2014 📍 Cambridge, UK
🔗 http://aceofspades.com

I was contracted by JaGeX to work on a past-dormant project - creating, implementing and testing innovative solutions to various problems, as well as managing what to develop and why.

- Major fixes to Ace of Spades, which is written in Python, and is a shooter game with hundreds of thousands of downloads.
- Liaising with a large, old and active game community to ensure that all updates were what the community wanted to see.
- Understanding, documenting, refactoring and working on a legacy code base that had remained practically untouched for over a year.

REFERENCES

Steve Pitchford - Development Director, Majestic

Jess Rose - Technical Manager at FutureLearn

ACHIEVEMENTS

🏅 Winner - AstonHack 2015
A Java-based app using your Twitter data to display a gamified agar.io-esque data visualisation of Twitter interactions - https://devpost.com/software/tweat

🏅 2nd Place - HackTheHolidays 2015
Web-based app written using JavaScript with Angular that used your recent Tweets to work out your "Festivity Score" - http://festive.site/

🎤 BCS National Conference
I gave a 25-minute talk on "Hackathons - Engaging the next generatiion of members", resulting in huge interest from many branches and kickstarted an interest in hackathons at the BCS,

🧍 BCS Committee Member
I have been involved in organising talks and events. I am now the Chief Engagement Officer of the BCS Birmingham Branch, which involves outreach and engagement within the local and wider tech community.

📖 Peer Mentor - Functional Programming
In my first year of university, I was selected to run sessions for 10-12 students at a time on OCaml, which was part of one of our modules.

SKILLS

JavaScript	Python	Git	Haskell
Java	OCaml	HTML	CSS
Bash	C	C++	Leadership
Project Management	Agile
Mentoring	LaTeX
Tournament Administration	AV