THOMAS GOODMAN FRSA FBS

PhD Researcher - University of Birmingham

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? Birmingham, United Kingdom

EXPERIENCE

Freelance Software Developer

Millennium Point

6 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

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)

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



BSc Computer Science (Hons)

78% Overall

PUBLICATIONS

Real-Time Polyphonic Pitch **Detection on Acoustic Musical** Signals

18th IEEE International Symposium on Signal Processing & Information Technology

Tom Goodman & Ian Batten

12/2018 % tomg.io/isspit-1.pdf

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 am the president of the departmental society for computer science at the university, having been elected 3 consecutive years, and have organised in excess of 100 events so far.



Clarifai Developer Evangelist

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

EXPERIENCE

Undergraduate Demonstrator

University of Birmingham - School of Computer Science

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)

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

% 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



Hackference 2016 Winner

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



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 keynote 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.

SKILLS

Data Science Python Machine Learning Git Leadership C **Events** Mentoring Java JavaScript **Signal Processing** Research **Analysis Algorithms Technical Writing** Music