TOM GOODMAN FRSA FBS MBCS

PhD Researcher - University of Birmingham

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@ TauOmicronMu

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Pirmingham, United Kingdom

EXPERIENCE

Teaching Fellow

University of Birmingham

₩ 09/2018 - Ongoing

♀ Birmingham, UK

I am currently working as a Teaching Fellow for the Mobile and Ubiquitous Computing, and Team Project courses. I previously worked as a Teaching Fellow for the Operating Systems, and Concepts of Computer Science courses, an assistant lecturer for the Reasoning course, and a personal tutor and teaching assistant for the MSc/ICY Software Workshop

- Multiple 2-hour lectures/exercise classes & prep
- Small-group (30 students) teaching & lesson prep
- Marking and feedback of submitted work including both implemented programming solutions and essays
- Conducting one-to-one vivas for the end-of-term submission

Project Software Developer

Majestic (Majestic SEO)

Worked in a small team to research and develop a new idea for the company - working specifically with NLP and Mathematical techniques and resulting in a fully implemented solution at the end.

Freelance Software Developer

Millennium Point

1 06/2017 - 08/2017 **♀** Birmingham, UK

% http://www.lincgraph.co/

Lout 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.

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 four consecutive years now, attracting around 1000 attendees overall.



CSS UoB President (@CSSBham)

I was the president of the departmental society for computer science at the university for 3 consecutive years, and organised in excess of 150 events so. I'm now acting as the Secretary - supporting and nurturing this year's committee.



President-Elect - Guild of Graduates and Alumni Association (GGAA) - UoB

I'm the Vice-President, and President-Elect of the GGAA. Representing over 300,000 alumni of the University of Birmingham, I work to organise events, and bring together alumni and current students in a variety of initiatives.

EXPERIENCE

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.

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)

% 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.

REFERENCES

Steve Pitchford - Development Director, Majestic

Jess Rose - Technical Manager at FutureLearn

Professor Andy Schofield - Pro-Vice Chancellor, UoB

ACHIEVEMENTS



Trustee - Guild of Students

I will be starting as a Trustee of the Guild of Students on 13th January 2020. The Guild is a registered Charity, and I will work on its governance.



Rising Star in Tech - 2019

I was awarded the Rising Star in Tech in the West Midlands at the 2019 Silicon Canal Awards for my work with the local community (https://siliconcanal.co.uk/thebirmingham-tech-awards-2019/)



Sponsorship

Since 2016, I have raised over £108,000 in sponsorship for tech events - including HackTheMidlands, and the Women in Technology Conference.



BCS National Conference

I gave a 25-minute keynote on "Hackathons - Engaging the next generation 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 have a number of roles, including outreach and engagement within the local and wider tech community.

SKILLS

Python Da		Data Scien	ice Git
Lea	adership	Events	Mentoring
C	Java	JavaScript	
Signal Processing Research			
Analysis Algorithms			
Ted	chnical W	/riting	Music
Go	vernance	e Mana	gement