

TOM GOODMAN FRSA FBS

PhD Researcher - University of Birmingham

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@ TauOmicronMu

<http://github.com/taumicronmu>

Birmingham, United Kingdom

EXPERIENCE

Teaching Assistant/Tutor

University of Birmingham

09/2018 - Ongoing Birmingham, UK

I'm currently working as an assistant lecturer for the Reasoning course, and a TA for the Mobile and Ubiquitous Computing, and Team Project courses. I previously worked as a personal tutor and teaching assistant for the MSc/ICY Software Workshop (Java) course.

- 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)

07/2018 - 09/2018 Birmingham, UK

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

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.

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 hackthemiclands.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

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.

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.

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/tweet>



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 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 am the Community Engagement Officer, and Inclusion Officer of the BCS Birmingham Branch, which involves outreach and engagement within the local and wider tech community.

SKILLS

Python

Data Science

Machine Learning

Git

Leadership

Events

Mentoring

C

Java

JavaScript

Signal Processing

Research

Analysis

Algorithms

Technical Writing

Music