COMPANY   June 28, 2021

I am pleased to present my application for the ROLE at COMPANY.

First and foremost, variety within roles motivates me. I enjoy learning and teaching different digital skills. I've done Web development, data science, digital marketing and more. Wherever I go I like to bring a baseline of project management. I am now aspiring to further my skills as a team lead in ROLE at COMPANY(WRITE MORE HERE).

What I offer most to a company is the ability to perceive and iterate on existing systems. I am a big believer in mastery and always strive to bring opportunities for others to learn together. Retrospectives are vital to learning from our past mistakes and looking curiously to our future.

Beyond my professional life, I organise PyDataMCR. This group that I grew focuses on open-source data tooling and has over 2000 members. I have organised hundreds of events, many podcasts and have given a collection of talks ranging from "What is synthetic data?" to "CSS as a digital art form".

Please see many more examples of my work on my website, blog, or GitHub.

Thank you very much for your time,

Joseph Allen

Education

Bachelor of Computer Science and Mathematics with Industrial Experience, *The University of Manchester*, BA (Hons) 2:1.

Experience

Oct 2020 – Ongoing — **Research Associate**, *The University of Manchester*.

My role here is focused on converting social scientists into computational thinkers. In this role I developed my presentation skills and overcame the anxiety inherent in presenting to a large audience.

- Gave a Synthetic Data webinar series, covering disclosure control and making use of Python and R data synthesis packages.
- Managed 2 Q-Step interns in delivering a project on social media data.
- Automated parts of the event process using Python, Zapier and Pipedream.
- Delivered many live-coding sessions in collaboration with RSS Merseyside, HiPyLiv, Methods@Manchester, PyDataMCR and more.
- Delivered Working with Twitter Data, a talk covering the academic tier of twitter and some case-studies.

Apr 2018– Ongoing — **Software Developer**, *AvocadoGreen*.

My own software development company. Here I work on a variety of data and web-based projects.

- Brought in to Lead the development of a React project at Paragon Pictures. Introduced the entire AGILE workflow, a mastery focus and career development for the team.
- Developed an MVP for OurSongRequest using Firebase and React.
- Managed the project development of an IoT-connected mining device with Red Meters. Lead data-driven experimentation to improve the neural network running this device, reducing error from 44% to 2.6%.
- Built a website for Ortom, a Manchester-based data consultancy. This site makes use of my usual stack of React, Gatsby, GraphQL and Netlify.
- A variety of Digital Art projects making creative use of digital skills.
  - Built the Gene Machine player for solo artist LA Priest.
  - Built a React front-end for Spectre.
  - Built a React and Flask system which judges users on their social media preferences for Raised by Google.
  - Built The Rose, which calculated the sentiment of tweets in real-time using Python.

2015–2018 — **Data Scientist / Front-end Developer**, *LateRooms.com*.

At this travel retailer I learnt the standards of professional development.

- Implemented a new hotel ranking algorithm which delivered over a million in additional revenue over the year. We recognised this as a bold claim and put large effort into maintenance, improvement and dash-boarding to reassure it's use.
- Developed an Flask API to return customer preference search based on Analytic Hierarchy Process.
- Built an npm package to generate new co-brand versions of laterooms.com. Compiled CSS meant generating new brands was trivial.
- Built a React dashboard to allow the Data Science team to track the progress of their geo-shape experiments.
- Developed a new React platform, to provide a solution to the full travel experience.

Skills

React, Javascript, HTML, CSS, Node, GitHub, Gatsby, Python, SQL, Netlify, Google Cloud Platform

See some of my projects at joseph-allen.github.io