

I am pleased to present my application.

I enjoy a variety of roles. I am motivated by learning, and then teaching my skills to others. I am comfortable in the worlds of Front-End Development, Data Science, Project Management and much more.

With over 5 years experience working directly with React, this CV can only have space for some of my most interesting projects. Front-end development is a dangerously turbulent field, and failure to adapt is catastrophic. As such I am keen to have opportunities to work on greenfield projects, with new frameworks and technologies.

Wherever I work I instill a baseline of project management. Aspects of AGILE working are essential to delivery. If you don't already offer retrospectives, sprint planning and a mastery culture, you will shortly after hiring me. On top of my developer skills, I enjoy leading a team and managing the growth of juniors. I aspire to further my skills as a team lead wherever possible.

My greatest asset is my ability to perceive and iterate on business processes. Incremental learning is essential to me, and it should be to any team I join. We must reflect on our past, and look curiously to the future.

Beyond my professional life I organise [PyDataMCR](#). I have grown this group to over 2000 members, and have no issues communicating with a large audience. I have organised hundreds of tech events, podcasts and talks ranging in topic from "What is synthetic data?" at the University of Manchester to "CSS as a digital art form" "[CSS as a digital art form](#)" at local web meetups.

Please see many more examples of my work on my [website](#), [blog](#), or [GitHub](#).

Thank you very much for your time,

**Joseph Allen**

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### Skills

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

### Experience

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

Ongoing 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.
- 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.
- Modernized the **UKDS YouTube channel** and developed reporting and KPIs.

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

Ongoing 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.

See some of my projects at [joseph-allen.github.io](https://joseph-allen.github.io)

### Education

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