

# Dave Allen

## Curriculum Vitae

*Full stack software engineer with client facing experience. Passionate about delivering value, creating great user experiences, and constantly improving working processes.*

### Education

2008–2012 **MPhys in Physics**, *The University of Manchester*.

#### **First Class Honours**

This includes 1 year of study in Madrid at the UAM on the Erasmus scheme

2006–2008 **A levels**, *Sir John Deane's College*, Northwich.

Maths	A
Physics	A
Music	A
Music Technology	B

### Experience

2014–Present **Full Stack Developer**, JUSTGIVING, London.

Worked on a number of projects, adding value across the business. Highlights include:

#### **EventBrite extension**

Tech: ASP.NET MVC, React, Redux

- Made decision to use React, worked well for our use case and is now our front-end library of choice
- Worked independently to complete the project
- Extension is now a big selling point when compared to rivals

#### **Campaign product development**

Tech: Web API, ASP.NET MVC, AWS (SQS and SNS)

- Integration with new donation process
- Rewrote creation process - page performance improved
- Optimised campaign search indexing - down from over 10 minutes to under 3 minutes

#### **API team**

Tech: Web API, ASP.NET MVC

- Migrating endpoints from accessing legacy database to using microservice APIs
- Successfully automated direct debits, saving time for finance and customer support

#### **Charity direct debits**

Tech: Web API, AWS

- One of the first usages of microservices
- Resilient - use of SQS to ensure no data lost
- Successfully automated direct debits, saving time for finance and customer support

2012–2014 **Software Engineer**, TESSELLA, Stevenage.

Worked on a wide range of software projects for clients of varying backgrounds, from standalone desktop apps to multi-tier web applications. Completed and led important internal work for the company to improve our processes and tools. Experience gained includes:

**Developer for a multi-tier web portal for a Pharmaceuticals company - (09/2013 to 10/2014)**

Tech: ASP.NET MVC, SQL server, WF, Selenium

- Responsible for the development of a number of key features, including the reporting system, and redesigning key user processes.
- Designed and developed our automated system testing solution, which cut down our system testing time from two weeks per iteration to a number of hours.
- The portal is now in full time use, and client is pleased with the result, and excited by how it will change how they operate.

**Off charge task manager (internal) - (07/2014 onwards)**

Skills: Communication, mentoring, organisation

- Part of a self organising team that manages the off charge activities in the office
- Have contributed and championed ideas that were of benefit to the business

**Open-source LIMS system for a biological research foundation - (02/2013 to 08/2013)**

Tech: JavaScript, Grunt, JQuery, Underscore)

- Delivered key features under the pressure of tight deadlines
- Strong advocacy of automated testing in this project resulted in potentially show stopping bugs being caught before being pushed into a production system.
- Adapted quickly to wide range of technologies

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## Tech

Languages C#, F#, ES6, JavaScript, Python, HTML, CSS, SQL  
Frameworks ASP.NET MVC, Web API, Node JS, React JS, Angular JS

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## Masters Project

Title *Investigation into the Stability of Planetary Rings (Jan 2012 - May 2012)*  
Supervisors Dr Richard James  
Description Design and produced software that accurately modelled one of Saturn's planetary rings. This model was built from scratch in C++. A range of perturbations to the simple model were included to improve the match to observations.

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## Interests and Activities

- Passion for music - I enjoy performing, writing and recording. I have attained a DipABRSM certificate in piano performance and grade 6 for guitar. Preparation for these exams helped develop my independent study skills, as well as ability to cope under pressure.
- Participating in game jams
- Furthering my knowledge by taking online courses, doing small side projects and attending meetup groups.