

Matthew Power

Curriculum Vitae

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Employment

March 2018 **Software Engineer**, *Thread*, London.

– Feb 2020 As part of the product team, worked across many systems within a large modular Django codebase. This included components such as the registration funnel, shop, and order management system. Made small, self-contained changes to a React frontend codebase.

Key achievements:

- Multiple iterations and A/B test experiments aiming to build a shorter, optimised registration funnel - "mini reg".
- Warehouse workflows to enable efficient expansion in the USA.
- Improving email deliverability.
- Functionality to split-ship goods to customers.
- Technical projects including upgrading to Django 2.0, Postgres 11 and adding timezone support.

Core responsibilities:

- Problem discovery and planning, often as the sole developer on the team ("pod").
- Managing production incidents, debugging and investigation, as part of the "firefighter" rota.
- Ideation, development, and deployment of new features within cross-functional teams.

June 2016 **Python Developer**, *onefinestay*, London.

– Feb 2018 Worked on the Platform team, responsible for onefinestay's collection of 50+ Python Microservices. They power guest-, homeowner-, operations, and business facing applications.

Key achievements:

- Developed a new GraphQL backend for a rebuild of the *onefinestay.com* website, merging the existing *onefinestay*, *Squarebreak* and *Travel Keys* portfolios under one unified website and brand.
- Completed a two-way integration with *Rentals United*, a channel manager, allowing onefinestay to distribute its inventory to many channels, such as HomeAway, Expedia and AirBnB.
- Bootstrapped and took ownership of the hiring process during an important transition for the team.
- Migrated aggregated logging to AWS Elasticsearch Service.
- Dockerised services and deployed them onto AWS ECS, automated using Cloudformation.

Core responsibilities:

- Development, testing and deployment of new services and new functionality in existing services.
- Running sprint ritual, including sprint planning and retrospectives.
- Technical design and architecture in a microservices ecosystem.
- Advocating for TDD, CI/CD and other development best practices.

June 2014 **Graduate/Junior Python Developer**, *Hogarth Worldwide*, London.
 – June 2016 Worked on the development and maintenance of Zonza, a digital asset management (DAM) system.

Education

2009 – 2013 **Physics, MPhys (Hons)**, *University of Southampton*, 2:2.

2002 – 2009 **A Level, GCSE**, *St. Clement Danes School*, Chorleywood.

- Physics: **A**
- Maths: **A**
- Chemistry: **A**
- Further Maths: **B**
- GCSEs, 6A*s, 3A's, 2B's

Programming Languages

Python APIs, Django. Backend service design and testing.

Javascript React, Jest. Styling with CSS modules.

Puppet DSL	Config mgmt. with the Puppet DSL, structuring code to the Roles, Profiles and Modules pattern.
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Ruby Puppet custom types, Rspec

Technologies

Frameworks Django, Flask, Nameko

Patterns RPC, Pub-Sub, REST, GraphQL

Databases Postgres, MySQL

Config mgmt. Puppet, Ansible, Terraform

AWS EC2, ECS, CloudFormation

Google Cloud GKE

Search Solr, Elasticsearch

Queues RabbitMQ, Redis

Interests

Software Contributions to free & open source software and my own projects
<https://github.com/mthpower>

Python Organising episodes of the London Python Dojo.

- Humanism
- Sailing
- PC gaming & hardware
- Fountain Pens
- Skiing

References

References available on request.