

Matthew Power

Curriculum Vitae

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Employment

Oct. 2021 – Present **Senior Software Engineer**, *Bulb*, London.

Aug. 2020 **Software Engineer**, *Bulb*, London.

Worked on the Platform/International team building a microservices billing system in Python for international expansion and a UK migration. Later, moved to the Billing & Payments team, working on Typescript microservices. The domain included payment flows, suggested payment amount, and payment review.

Key achievements:

- Added functionality to process smart meter reads from industry dataflows in an event driven manner.
- Setup a data pipeline with DBT to transform and load customer data.
- Planned and built out final and annual bills for the French market.
- Deprecated hard-to-test and poorly performing batch data queries, “junifer-bodge”, replaced with a DBT-powered pipeline.
- Improved the reliability and performance of GoCardless webhook handling by using database transactions and locking.

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.

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 by implementing a sunset policy, best practice use of IP addresses, DMARC records, and detailed options for users.
- Functionality to split-ship goods to customers.
- Technical projects including upgrading to Django 2.0, Postgres 11 and adding timezone support.

June 2016 **Python Developer**, *onefinestay*, London.
– Feb. 2018 Worked on the Platform team, responsible for onefinestay's collection of 50+ Python microservices.

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.

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. Migrated the application from on-prem hardware to AWS with Puppet and Cloudformation.

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, 3As, 2Bs

Programming Languages

Python APIs, backend services. Django.
Typescript APIs with an emphasis on backend services.
Rust Hobby Projects.

Technologies

Frameworks	Django, Flask, React, Nameko	Patterns	RPC, Pub-Sub, REST, GraphQL
Databases	Postgres, MySQL	Config mgmt.	Puppet, Ansible, Terraform
AWS	EC2, ECS, CloudFormation	Google Cloud	GKE, Google Pub-Sub
Data	BigQuery, DBT	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.

- Board Games	- Fountain Pens
- Sailing	- Skiing

References

References available on request.