James Routley

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github.com/jamesroutley

Work:

2015-Present: **Developer at Cloudreach**
- Lead developer on Sceptre. Improved engineer productivity by leading an agile team of developers to build a command line tool written in Python to automate the deployment of AWS infrastructure. Sceptre follows software design best practices, and has integration and unit tests with 100% code coverage.
- Open Source Lead. Contributed to the wider community and developed Cloudreach's public persona by managing our open source program.
- Reduced infrastructure spend and improved security by developing an AWS Lambda and Python micro-service cloud governance tool for Pearson PLC.
- Improved reliability and developer agility by carrying out a data warehouse migration for Transport for London.
- Completed AWS Solutions Architect Associate Certification.

2015-Present: **Co-founder of and Chef at Bergamot and Black**
- Organise and cook monthly dinners for eight to fifteen people, open to members of the public.

2016-Present: **Advanced Python Instructor at Code First Girls**
- Tried to help reduce the gender imbalance in tech by volunteering as an instructor teaching a free, 16 hour Python course for women.
- Developed leadership and mentoring skills.

Open Source

2016: **ptolemy** github.com/cloudreach/ptolemy
- Helped simplify AWS database migrations by developing and releasing Cloudreach's first open-source tool which allows users to write terse Database Migration Service Mapping Tables in YAML.

2016: **dev** github.com/jamesroutley/dev
- Improved developer productivity by writing a tool which allows developer environments to be initialised quickly.

Technical Skills:

Advanced: **Python**, **Cloud Architecture, AWS, TDD, Agile Development, Shell**
Intermediate: **Golang**, **Javascript, HTML, CSS, Machine Learning**

Education:

2011-2015: **University of Oxford**
- Master's Degree in Engineering Science (MEng) (2:1)
- Developed an innovative Android application which can classify 102 common flower species to a practical accuracy of 96.2% by training Convolutional Neural Network and Support Vector Machine algorithms.
- Specialised in Software and Biomedical Engineering
- Modules: machine learning, computer vision, optimisation and medical image analysis

2006-2011: **St Paul's School**
- A Levels: Maths (A*), Physics (A), Chemistry (A), Further Maths (B)
- Arkwright Engineering Scholar
- GCSEs: 10 A*s, 1 A

Interests: Practical machine learning, butchery, making cocktails, cycling, squash.