Tim Oates

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linkedin.com/in/tim-j-oates in

EDUCATION

MSc Astrophysics (Distinction)
Queen Mary University of London
2019 - 2020

Graduate Diploma in Physics
King's College London
2018 - 2019

BSc Mathematics
University of Bath
2010 – 2014

TECHNICAL SKILLS

Experienced

- Python
- HTML/CSS
- Git
- Unit testing
- Code reviews

Some Experience

- JavaScript (incl. jQuery)
- PHP
- SQL
- MATLAB
- Linux (incl. NGINX)
- Django
- MongoDB
- R

OTHER SKILLS

- Agile (Scrum)
- Line management
- Teaching (Python)

HOBBIES

- Board games
- Tennis
- Surfing
- Hiking

PROFESSIONAL PROFILE

I'm an experienced software developer with a life-long passion for space. I'm a self-motivated, diligent worker with varied programming and academic experience, looking to apply my skills in this exciting and growing industry.

WORK EXPERIENCE

DATA SCIENTIST
Office for National Statistics | 2021 - present

Primarily a Python development role, building software for processing and analysing survey data. I previously worked on a pensions survey system as the sole developer, but now work in a data science department, building business survey systems with a development team.

- Reduced daily run-time of the pensions survey ingest system from 1.5 hours to under 5 minutes
- Reworked the pensions system to increase efficiency, reliability and readability of code; transitioned to an object orientated approach and introduced unit tests throughout
- Lead and deliver the Python tutoring programme for the Data Science and Skills Team (of which I am a co-lead)
- Chair weekly meetings with system users, which have been described as "the most productive in my calendar" by a senior team member
- Received six individual recognition awards for significant contributions to the organisation
- Line-manage a new recruit

ASTROPHYSICS MSC & GRADUATE DIPLOMA IN PHYSICS
2018 – 2020

- Achieved a mark of 93% in the MSc
- Programming and statistics-focused research project aiming to improve the detection of distant galaxies; ran complex simulations in Python to test a novel statistical method used to extract a weak signal from very noisy data

INFORMATION ANALYST
Campus Temps, University of Otago, New Zealand | 2017

- Managed the restructuring of, and wrote web pages for, the Graduate Research School website
- Ran database queries and analysed statistics to produce reports to present in meetings

DISTRIBUTION & IT MANAGER
BAR Publishing | 2015 - 2017

- Tested and updated the content of their website
- Provided general IT support including managing their server and setting up new workstations
- Managed sales, invoicing, stock and quality control of books
- Supervised temporary staff

SOFTWARE ENGINEER INTERN
PrintNode | 2015