


Tim Oates

PYTHON DEVELOPER

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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 (pandas, NumPy)
- HTML/CSS
- Git
- Unit testing

Novice

- JavaScript
- PHP
- SQL
- MATLAB
- Django
- MongoDB
- R

OTHER SKILLS

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

HOBBIES

- Tennis
- Surfing
- Hiking

PROFESSIONAL PROFILE

I'm an experienced Python developer who enjoys a challenge and has a passion for clean code. I'm a self-motivated, diligent worker with varied programming and academic experience.

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
- Chair weekly meetings with system users, which have been described as "the most productive in my calendar" by a senior team member
- Received four individual recognition awards for contributions to the organisation
- Teach beginner python sessions for other business areas
- Line-manage a new recruit

ASTROPHYSICS MSC & GRADUATE DIPLOMA IN PHYSICS

2018 - 2020

- Scored top of my cohort in the MSc with 93%
- 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