

Contact

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Platforms

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Languages

English Native
Japanese Beginner

Programming

Python Expert
LaTeX Advanced
Markdown Advanced
Groovy Advanced
HTML/CSS Intermediate
Javascript Intermediate
KerboScript Intermediate
SQL Intermediate
Bash Mediocre
Go Mediocre
Terraform HCL Mediocre

Hobbies and Interests

Space & Spaceflight

Natural or artificial, if it's found outside of earth's atmosphere, I probably like it. Exoplanets and space-probes are my favourite though.

Gaming

I Love Factorio, Stellaris, modded Minecraft, and Kerbal Space Program.

Programming

I build watch faces for my FitBit Versa, occasionally work on my custom programming language, and am slowly building a flight computer for Kerbal Space Program.

Experience

Canonical

Present
2023-05 Software Engineer I
Primarily handling internal automation resources, including our Jenkins CI, image promotion workflows, and spike into automated point releases and bug backporting

2023-05
2022-06 Associate Software Engineer
Joined as part of the graduate fast track programme

B&M

2019-10
2017-10 Floor Staff
Primarily worked on Fast Moving Customer Goods, Unloading deliveries, and Warehouse organisation

Education

University of Portsmouth

2022-05
2018-09 MPhys Physics, Astronomy, and Cosmology
First Class Honours
First year mean grade of 76.7%, Final year mean grade of 79.2%
Masters thesis combining computational modelling, first hand observation, and supplemental data to measure exoplanet transits. Developed analytical models of transit timing variation to investigate the orbital properties of non-transiting planets. Results were summarised with a 6000 word dissertation, 10 minute presentation/discussion, and scientific poster.
Bachelors thesis utilising computational modelling and signal processing to identify and model glitch events within the LIGO data set. Results were summarised with a 5000 word dissertation, 10 minute presentation/discussion, and LaTeX Compatible result list.

AiCore

2022-06
2022-01 Ai and Data Engineering
Certified in the practical application of AI and Data Engineering

Peter Symonds College

2018-06
2016-09 A-Level
Physics (A), EPQ (A), Maths (B), Further Maths (D), AS-Chemistry (A)

City of Portsmouth Boys' School

2016-05
2011-09 GCSE
9 GCSE's A* to B Including Science, Computer Science, Maths, and English

Memberships

British Astronomical Association

Present
2022 Member

Institute of Physics

Present
2022 Member
2022
2018 Associate Member
Granted the use of the post-nomen 'MInstP'

European Astronomical Society

Present
2020 Member

Royal Astronomical Society
















Present
2020 Fellow
Granted the use of post-nomen 'FRAS'

Awards

2022-05 Graham Bryant Prize for Best Observatory Project
First recipient of the award to honour the late Graham Bryant for my Masters thesis
University of Portsmouth

Projects and Publications

Ongoing MAAS Terraform provider
Infrastructure as code for your running MAAS instance
Canonical
Ongoing Go MAAS Client
Go client wrapper around the MAAS API
Canonical

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| Ongoing |  MAAS Anvil Charm based bootstrapping for your MAAS topology | Canonical |
| Ongoing |  MAAS Charms Charmed MAAS | Canonical |
| Ongoing |  MAAS Internal CI Manage our Jenkins instance, and serves as the first port of call for knowledge on it | Canonical |
| Ongoing |  Packer-MAAS Custom images for your MAAS deployment | Canonical |
| Ongoing |  Metal As A Service | Canonical |
| Ongoing |  Season Clock Fitbit Clock face showing the seasons on your wrist | |
| 2023-09 |  'Variations on an Exoplanet theme' webinar Computational Modelling of Transit Timing Variations | British Astronomical Association |
| 2023-03 |  MAAS Ansible Playbooks | Canonical |
| 2022-05 |  Lloyd-Walters et al. 2022 Masters: 'Determining The Parameters of Exoplanetary Candidates From Transit Timing Variations.' | University of Portsmouth |
| 2022-05 |  Data Science Project Combined Data science and AI Pipeline for outcome prediction | AiCore |
| 2022-03 |  Data Collection Pipeline Industry grade data collection pipeline on AWS using Docker, Selenium4, Prometheus, and Grafana. | AiCore |
| 2022-02 |  Fitbit Pokétech A Fitbit clock-face in the style of the Pokémon Generation IV Pokétech. | |
| 2022-02 |  Computer Vision Rock-Paper-Scissors TensorFlow based model to play Rock-Paper-Scissors in real time with a webcam and openCV | AiCore |
| 2021-05 |  Lloyd-Walters et al. 2021 Bachelors: 'Distinguishing Intermediate Mass Black Hole Mergers From Short Duration Glitches.' | University of Portsmouth |
| 2017-12 |  Lloyd-Walters J. 2017 Extended Project: 'Is There A Possibility of Extrasolar Habitation?' | Peter Symonds College |