

## Technical Skills

### Languages

- Proficient in Python (2 & 3)
- Experienced in Perl, JavaScript, Bash, CSS, MATLAB, L<sup>A</sup>T<sub>E</sub>X
- Familiar with Java, C#, Go, SCSS, Less, Mathematica

### Software and Technologies

- *Web Development*: Django, Django-Oscar, Flask, Fabric, Django CMS, FeinCMS, Google Analytics
- *Server Infrastructure*: AWS, Docker, Supervisor, Apache, Nginx, Vagrant, Virtualenv, Cron, Nameko
- *Data Analysis Packages*: Numpy, Pylab, Matplotlib, Origin, GNUplot
- *Version Control*: Git, Mercurial
- *Continuous Integration*: Jenkins, Gitlab CI, Travis CI, Circle CI, Rundeck, Sentry
- *Platforms*: Linux, MacOS, Windows
- *Architectures*: Scalable, Micro-services, Monolithic, Distributed, REST API
- *Coding Practices*: TDD, DDD, Agile, Kanban, Scrum

## Experience

### Senior Developer (Contractor)

London

*Arts Alliance Media*

*Feb 2017 — Present*

Engineering server-side logic in a polyglottic environment with complex architecture.

- Implementing complex continuous integration for components engineered in Perl and Python.
- Building new tooling and complex abstracted class structures to fulfil technical requirements.
- Refactoring existing codebases to adhere to best practices using modern coding practices.

### Software Developer (Contractor)

London

*Lystable*

*Oct 2016 — Jan 2017*

Engineering server-side logic for software built with a domain-driven micro-service architecture using Flask/Python3.5

- Implemented complex business-critical logic including financial systems.
- Contributed to discussions regarding the evolution of complex distributed architecture and assessed future implications of design decisions.
- Provided constructive and objective feedback using procedures such as code-reviews to ensure code quality and sanity within the team.
- Worked as part of a team to deliver features within expected deadlines.

### Software Developer (Contractor)

London

*Pancentric Digital*

*Feb 2016 — Oct 2016*

Primary full-stack developer on numerous projects engineered in Python/Django with a focus on back-end server-side logic.

- Provided support and maintenance on CMS-driven web applications with highly complex business-critical logic.
- Provided guidance and mentorship to a small team.
- Modernised existing codebases with an emphasis on Continuous Integration and best practices.
- Introduced new processes to streamline the delivery of projects in accordance to deadlines.
- Implemented and re-factored existing code-bases using innovative technologies conducive to robustness, modularity and productivity.

- Assessed the viability solutions and delivered completed features in accordance to agreed terms.

## Software Developer

London

*Global Radio*

*July 2015 — Jan 2016*

Full-Stack developer on highly distributed software primarily engineered in Python.

- Maintained highly complex legacy centralised Content Management Systems with dissociated, dependent services.
- Negotiated and coordinated new procedures to reconcile content-driven legacy projects with modern programming ethos.
- Collaborated with a large team of developers with varied skills to scope out work packets and deliver results effectively.
- Utilised all elements of the stack including complex caching, python code and JavaScript front-end to deliver completed features.
- Provided technical assistance to both technical and non-technical users.

## Software Developer

London

*Tangent Snowball PLC*

*November 2013 — June 2015*

Primary back-end developer on numerous projects engineered in Python/Django.

- Engineered projects to handle high capacities using micro-service architecture and dynamic scaling.
- Extended and enhanced Django-Oscar to create dynamic bespoke e-commerce solutions.
- Adapted to clientele needs by rapidly deploying and integrating novel functionality through various agile development techniques.

## Software Developer (Data Analytics)

London

*Ubiquity Press (Open-Access Publisher)*

*March 2013 — November 2013*

Developed and maintained an exploratory data analysis tool from which business and financial decisions were made in a fast-paced reactive environment with instant feedback from end-users implemented in Django.

- Collated data using various external APIs into a structured database.
- Performed complex data analysis using mathematical libraries such as Numpy and Matplotlib.
- Provided graphical representations of results through an interactive web interface designed for non-technical end-users.
- Developed a web API which provided content to a number of academic journals.

## MSci Project

RHUL Physics Dept.

*Aperture Photometry Project*

*Sept 2011 — March 2012*

Performed complex data analysis in Python (Numpy and Matplotlib) for data collected using astronomical equipment (e.g. telescope, thermoelectrically cooled cameras) and produced Colour-Magnitude Diagrams.

## Nanofabrication Lab Assistant

RHUL Physics Dept.

*SNS Junction Investigation*

*July 2011 — August 2011*

Produced and tested samples with Superconductive-Normal metal-Superconductive (SNS) junctions using electron beam lithography and thin film deposition.

## Education

### Astrophysics MSci

Egham, United Kingdom

*Royal Holloway University of London*

*2008 — 2012*

### Human Spaceflight and Exploration Course (Pass with Distinction)

Umeå, Sweden

*Umeå University*

*2011*

## Additional Details and Interests

I am a native English speaker (with British Passport), fluent in French and Creole.

I have a passion for rock climbing and enjoy cooking, as well as photography.

I am a regular DjangoCon attendee.

**References are available upon request.**