

Oscar Byrne

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I'm a curious developer with a particular loyalty to Python, although I'll use whatever tool is best for the job. If I learn something new I like to learn how to use it properly. That means: beautiful interfaces; no fear for refactoring; and, of course, following the style guidelines(!).

Work Experience

Full Stack Developer

May 2018 - July 2018

Globalme

- Managed hosted infrastructure via AWS
- Adapted the back end code for authentication via AWS Cognito
- Developed a SPA for database administration
- Automated various manual processes by creating a library of Photoshop plugins in Javascript
- Technologies: Python, Flask, Javascript (jQuery and ExtendScript), AWS, PostgreSQL

Automation Engineer

November 2017 - May 2018

Globalme, contracted by Intel

- Managed migration of test development from India to Vancouver
- Refactored large code base (~15000 LOC) to be more maintainable
- Established processes – code review, development phases – for the team in Vancouver
- Mentored (including leading training sessions in Git and Python) a team of 9 manual testers
- Technologies: Ansible, Python, Bash, Powershell

DevOps Engineer

February 2017 - August 2017

Ultrahaptics

- Maintained Teamcity CI pipeline, including Windows and Macintosh machines (~10 nodes)
- Delivered a proof-of-concept CD pipeline for building and deploying VMs
- Technologies: Ansible, Python, Bash, Powershell

Software Engineer

October 2014 - July 2016

Cisco, formerly Acano

- Analysed VOIP deployments to determine root cause of test failures
- Drove adoption of agile work style by championing test automation
- Developed a “write once, run anywhere” test framework covering Android, iOS, Windows, Mac and web
- Planned comprehensive testing strategy (including CI with remote teams) for next-gen product
- Technologies: Python, Java, Bash

Hobbyist Portfolio

Resume builder

<https://github.com/oscarbyrne/cv>

When job hunting I find I spend an inordinate amount of time formatting my resume. To cut down on this time I created a library which creates beautifully-formatted resumes in the time it takes to hit my enter key. By storing the important data - job records and document layout - in a series of easily-editable config files and generating responsive HTML5 via a Jinja2 template, I create first-class resumes in an instant. You're reading one right now!

Music theory with Python

<https://github.com/oscarbyrne/notes>

I have a number of hobbyist projects using Python, but the one which I am most happy about (aka the most recent!) is a tool for composers which classifies musical objects according to 'musical set theory'. In this project I have come to realise how the abstract base classes for containers defined in the standard library can be used to cleanly define custom classes. It is also a good example of how I try to keep method definitions to be 5 lines or less, often with the help of Python's excellent `itertools` module.

Other Experience

Summer Studentship Computing Program

July 2013 – August 2013

DESY

- Lived in Hamburg, Germany studying the world's most brilliant x-ray source
- Created an RPC endpoint for sharing experimental data
- Developed an image processing toolchain in Python for analysing tomographic data

Education

MSCi Physics

2010 - 2014

University of Birmingham

For my fourth year project I became involved with front-line research in metamaterials, and contributed to a project which was presented as part of the PIERS conference 2014 in China. I chose mostly computing-related modules, including:

- Computational Modelling of Physical Systems
- Teaching in Schools
- Image Processing