Oscar Byrne

oscar.byrne@gmail.com
https://github.com/oscarbyrne
+1 (604)-355-1519

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 (CRUD operations)
- 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

Advanced music theory with Python

https://github.com/oscarbyrne/pyatonic

Music theory is one of my passions. I've recently had the opportunity to dive deep into some of the concepts I've been reading about, requiring working knowledge in a host of new concepts from category theory to tree search algorithms. The result is a library of methods ultimately able to demonstrate computational creativity (yes!) by conceptually "blending" musical chords, an algorithm developed as recently as 2015. The code itself showcases my ability to write in a pythonic style: making heavy use of generators, a mastery of Python's data model, and avoiding the over-reliance on classes often found with junior developers.

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!

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