

Steve Pike

Personal Details

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Github <http://github.com/stringfellow>

Skills & Character

- Over 15 years' programming experience including: Python & Django (incl. GIS APIs/technologies e.g. ArcGIS, GeoDjango, PostGIS), JavaScript/jQuery, SQL, HTML, CSS amongst others. Also skilled with Linux administration, version control, documentation and testing.
- An honest communicator and able negotiator working well within teams, under direction or leading others.
- Highly capable of independent academic and technical research to a minimum of a Masters Degree level.
- Conscientious, with a strong moral compass; passionate about solving problems, both technical, social and ethical.

Relevant Work Experience

- **Senior Developer** August 2015 – March 2016
Open Utility¹ 35 Kingsland road, E2 8AA
Working to build Piclo, a peer-to-peer energy trading product. A pilot conducted with Good Energy (GE), my role was integrating data flows with GE, creating and using APIs in our micro-services, resolving issues around data discrepancies, timezone handling, user-facing tools on the customer website including a one-page “app” navigating and visualising the data. I worked closely with the design team and with other developers to keep a tight feedback loop and continuous improvement of all aspects of the product. **Python, Django, Tornado, Postgres, Redis, Celery, AWS**
- **Software Developer/Lead Developer** June 2012 – January 2016
CarbonCulture² 214c St Paul's Road, N1 2LL
Developing a platform to engage communities – from the occupants of a single floor of a building all the way up to the city-wide scale – in reducing their carbon impact and living better at the same time. I lead the tech team, solving interesting architecture and build challenges, trying to bring fresh and improved solutions to some quite old and some quite new issues in the field. We dealt with a full stack of very technical (in-house and 3rd party) systems integrations, all the way up to the UX/UI issues that affect users. At its maximum size, I managed a team of 4 other developers. **Python, Django, Pandas, Postgres, Rabbit, Celery, Memcached, Saltstack**
- **Lead Developer** June 2013
AshTag / IAS-ESS³
AshTag v1 was built rapidly on top of a personal project – IAS-ESS⁴ – which aimed to crowd-source and map Invasive Alien Species (IAS). The AshTag project was intended to crowd-source the identification of Ash trees with the fungal disease that was causing concern in 2013. The project had a great response and resulted in AshTag v2 being custom-built and open-sourced.
- **Software Developer** May 2010–June 2012
Maplecroft⁵ The Towers, Bath, BA1 5JZ
I streamlined the site's core features, allowing greater re-use of data (including re-usable data renderers & visualisations) and products, easing use for both clients and colleagues. I worked on data ‘scorecards’, risk-calculators, ethical supply chain tools and played a key role in developing SEDEX's Risk Assessment Tool⁶. Our team worked closely with risk analysts and the GIS team.
- **Part-Time GIS Lecturer** October 2009–May 2010
Earth Sciences, Glamorgan University, Pontypridd, CF37 1DL
I taught first and second year Geographic Information Systems (GIS) lab class, predominantly using ArcGIS, GMaps/GEarth and eCognition. I also assisted in lesson preparation and assessment marking.

¹<https://www.openutility.com>

²<http://carbonculture.net>

³<https://www.ashtag.org/>

⁴<http://www.ias-ess.org>

⁵<http://maplecroft.com>

⁶<http://www.sedexglobal.com/member-services/risk-assessment/>

◦ **Research Programmer**

Summer 2006

Future Interaction Technology Lab, Swansea University, SA2 8PP

I assisted with Microsoft-funded, spatially framed Internet-search related research, and developed a web-based presentation system for the acquired data which included use of tag clouds and (then) MS Live Maps.

Academic History

◦ **MSc Environmental Conservation Management : *Distinction***

2008–2009

Glamorgan University, Wales, UK

Achieving distinctions in all taught modules, including Geographic Information Systems/Remote Sensing (GIS/RS) work, Biology & Ecology with an emphasis on Conservation and Terrestrial & Freshwater systems, and also Environmental Management Principles. My thesis, awarded a distinction, was entitled ‘*Object Based Image Analysis for the Automated Mapping of Rocky-Reef Habitats*’. I also co-authored a paper in this field⁷.

◦ **BSc Computer Science : *First-class Honours***

2003–2006

Swansea University, Wales, UK

A maths-strong, programming-language rich degree including modules in: Web Applications, Designing Algorithms, Algorithms & Complexity Theory, Computability, Algebraic Systems Specification, Cryptography & IT Security, computer networking, Functional and Imperative Programming, Mobile Interaction Design/Human-Computer Interaction amongst others. My dissertation, a context sensitive mobile music player, entitled ‘*intuiTunes – Enhancing The Portable Digital Music Player Experience*’ was awarded first class marks.

◦ **Victoria College, Jersey**

1996–2003

- **A-levels** Biology : A Computing : A Maths : A
- **AS-levels** Psychology : A General Studies : A
- **GCSEs** 9 A*/A grades 1 B grade

Non-Academic Qualifications, Skills and Responsibilities

- eCognition 8 trained Definiens User Conference, Munich 2009
- ESRI ArcGIS trained – Including programming ArcObjects (.NET) 2008–2010
- Course Representative and Student Voice Representative Glamorgan Uni. 2008–2009
- PADI SCUBA Diver – Advanced Open Water Since 2007
- Jungle survival trained Trekforce Worldwide, Belize, 2007
- Full, clean driving licence Since 2002

Interests & Associations

These days, I spend my personal time absorbed in London’s cultural offerings, from theatre to nightlife. As something of a countryside person, I also try to get out often and enjoy walking and cycling. I have volunteered part-time with MapAction, contributed to Friends of the Earth’s mapping project, am involved in the Humanitarian OpenStreetMap Team’s mapathons every month or so, and try to join hands-on conservation work like the Lower Regent’s Coalition canal cleanups as often as possible. I believe charity and volunteering are very important and as well as volunteering, I make regular donations to many charities and causes.

In the past, I spent rather much more of my personal time on software projects – I’m particularly passionate about projects that solve environmental, humanitarian or social need, as well as those that encourage music exploration! The most successful of these projects was *IAS-ESS* which later became the basis for *AshTag* (see above). Previously, I had written a prototype ethical purchase website called *Badlist*⁸. I have started other projects such as *H₂O Really*⁹ (now defunct). I wrote a Py-Objective-C based app called *Shtaggle*¹⁰ – allowing users to tag their music using iTunes and Last.FM – this had quite a good uptake.

February, 2016

⁷<http://www.mdpi.com/2072-4292/3/2/319/pdf>

⁸<http://badlist.co.uk>

⁹<https://github.com/openwater/h2o-really>

¹⁰<http://www.macupdate.com/app/mac/27920/shtaggle>