Christy O'Reilly

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Skilled Python and Javascript developer, experienced at owning projects from start to finish.

Experience

Conversocial   *Oct 2011 - Oct 2017*
Senior Developer; Lead Developer; VP Engineering

During my time at Conversocial (customer service SaaS), I was responsible for the whole software lifecycle including analysis, design/architecture, implementation, testing and maintenance. I worked in close partnership with the product team to understand business requirements and create solutions, proactively developed infrastructure and tooling to accelerate the engineering team and mentored team members including design and code review. I led projects using Agile methodologies (Scrum) and ensured code was well tested throughout. Following promotion to VP Engineering in Q2 2016 I led the twenty-strong Engineering department and set technical strategy.

Technologies: Python, Django, Flask, ReactJS, MongoDB, MySQL, Redis, RabbitMQ, AWS, Linux

Conversocial Crowds
- Led team to develop Conversocial Crowds in collaboration with Google: a mobile first web app to allow peer to peer resolution of customer queries.
- Built a new responsive application with React frontend, new endpoints, data models and backend services. Served from same web servers as main application using new subdomain and custom Django middleware. Also personally productionised data scientist's analysis into question classifier service.
- Technologies: Python, ReactJS, Django, MongoDB, NLTK/Scikit learn

Customer Profiles
- Led team to develop Customer Profiles component, allowing rich view of customers with annotations, tags and notes and full history of changes.
- Geographically mirrored Flask service to comply with EU data law, required custom auth layer to enable client browsers to talk directly with service. React frontend to display and edit customer information, as well as configurable iFrame component.
- Technologies: Python, ReactJS, Flask, MongoDB

Threaded Conversations
- Independently designed and implemented backend for Threaded Conversations, porting our entire workflow to use conversations rather than individual messages.
- Created data models and threading service, provided new endpoints in collaboration with frontend team ensuring high performance throughout, created data migration tooling and orchestrated migrations for all customers.
- Technologies: Python, Django, MongoDB

Other notable projects
- Twitter compliance firehose consumer; Twitter batching backdrop fetcher; analytics service and frontend; approval workflow; internal tooling for administration and debugging; deploy tooling and service.

Python and Django Coding Meetup   *May 2013 - Nov 2014*
Organiser

[Biweekly meetup](#) to work on Python and Django projects.
Provided advice and assistance to both new and experienced Python/Django users. Gave lightning talks on development tooling and techniques.

Revector   *Oct 2010 - Oct 2011*
Software Developer

Revector provides mobile telephone fraud detection and prevention to network operators.

I personally introduced Django to provide more robust internal tooling after identifying recurring revenue loss due to misconfiguration; this involved writing custom ORM bindings to support MySQL views of timeseries data.
Other projects include Python API bindings for CRM, new Javascript visualisations and reporting features for client frontend.

Technologies: Python, Django, Javascript, jQuery, MySQL, Qlik, Linux, Windows Server

Gravesend Grammar   *Jul 2009 - Jul 2010*
eLearning Development and Support

Developed room booking system in Ruby on Rails; trained teachers in use of software; introduced, administered and supported new Virtual Learning Environment.

Education

University of Bristol, Mathematics BSc 2:1 (Hons)
Final year project: "Chaos in Billiards", included Python simulation. Awarded 1st.

Gravesend Grammar School
A-levels: AAAB (Mathematics, Further Mathematics, Physics, Classical Civilisation)
GCSEs: 8 A*s, 2 A's

Open Source Projects

[before_after](#) - sugar over Mock library to enable easier [testing of race conditions](#)
[skicam](#) - home-made GoPro/MP3 player using Raspberry Pi & Camera Module
[kettle](#) - rollout system with web interface and rollback capabilities
[zephzone](#) - single command to enable focus, with companion [Android app](#)
[londoncommute](#) - London bus commute mapper