Ed Singleton

Lead Software Engineer, with 17 years experience of all aspects of Python development. Particular expertise in rapid prototyping of MVP web apps, mentoring, code quality, testing and leadership. Security Cleared (SC)

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EXPERIENCE

i.AI for Prime Ministers Delivery Group, Cabinet Office
Lead Technologist (Contract)   April 2022 to August 2023
Disruptive development inside Government

- Created and led an internal consultancy of 10 people
- Architecting and prototyping experimental MVPs
- Providing tech advice to X-Gov development projects
- Building sustainably fast-paced practices, and developer-focused libraries to support them
- Team leading and mentoring
- Tech used: Python, Django, Docker, React, JavaScript, REST, PostgreSQL, DevOps, Terraform, AWS, CI/CD

Covid Taskforce, Cabinet Office
Lead Python Developer (Contract)   November 2020 to March 2022
Saving the country, one chart at a time

- Architected and led development of a data science platform for collecting data and building charts
- Scraped foreign Omicron data and got it onto the PM's desk within hours of asking
- Trained and mentored data scientists in software engineering best practices
- Tech used: Python, Pandas, Django, JavaScript, Celery, Redis, Docker, PostgreSQL, REST, FastAPI, SQLAlchemy, AWS, CI/CD, microservices

Institute for Apprenticeships
Lead Python Developer (Contract)   November 2018 to September 2020
Refactoring a large system built by non-engineers

- Refactored internal data science platform
- Trained and mentored data scientists in software engineering best practices
- Implemented agile development practices
- Tech used: Python, Pandas, Django, Azure, Docker, PostgreSQL, DevOps, CI/CD

Boston Consulting Group Digital Ventures / De Beers
Lead Software Engineer (Contract)   December 2017 to August 2018
Ethical artisanal diamond mining tracking app

- Architected and built a system for handling asynchronous data from an offline first mobile application deployed to artisanal diamond miners in Africa
- Built and supported backend app to receive data, handle buying of diamonds, and put data onto a sister blockchain app
- Tech used: Python, GraphQL, JavaScript, React, Docker, CI/CD, Heroku, Azure, CI/CD

Department of International Trade
Tech Lead (Contract)   January 2017 to October 2017
Integrating data, prototyping websites

- Worked on data collection project; engineering a data transformation and syncing service

- Built website, and integrated with data-science platform, and UN Comtrade Data and WorldBank Data
- Led on dockerisation of other websites
- Tech used: Python, Docker, Django, Pandas, REST, PostgreSQL, Redis, AWS, CI/CD

Hitachi Consulting
Lead Software Engineer (Contract)   November 2015 to September 2016

Energy market trading prototype

- Architected and developed a prototype energy trading platform, including algorithmic price predictions and energy balancing
- Docker based micro-service deployment
- Architected and developed a data science platform for parallel, distributed simulations of the platform against historical data
- Architected and developed market simulator API to imitate market based on historical data
- Led on architecture, quality and mentoring
- Tech used: Python, Docker, Django, REST, SQLAlchemy, Pandas, Celery, RabbitMQ, Ansible, PostgreSQL, Redis, Jenkins, AWS, CI/CD, microservices

Digital Catapult
Senior Python Developer (Contract)   November 2015 to June 2015

Graph database for copyright licences

- Tech used: Python, Tornado, BlazeGraph, RDF, Behave, Flask, Bamboo, Docker, AWS, CI/CD

Global Radio
Senior Python Developer (Contract)   November 2014 to June 2015

Websites for radio stations

- Tech used: Python, Django, Docker, Celery, ElasticSearch, Memcached, MySQL

Streetbees
Head of Development   2014 to 2014

MVP for human intelligence platform

- Tech used: Python, Docker, PostgreSQL, Redis, Celery, AWS, CI/CD

Believe.in
Head of Development   2014 to 2014

MVP for charity donation site

- Tech used: Python, Django, Memcache, PostgreSQL, Pandas, Stripe, AWS, CI/CD

Newman Online
Senior Python Developer   2009 to 2014

Large Blue
Technical Director   2008 to 2009

Make Your Mark Campaign
Web Manager   2006 to 2008

Misys
Web Manager   2005 to 2006

Talent Campaign
Web Manager   2001 to 2005

StartPoint
Web Developer   1998 to 2001