

DYLAN BARTH

Houston, TX

dylanbarth.com

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Web and data consultant with 5 years of experience writing readable and extensible Python and JavaScript code, building web apps, API integrations, web scrapers, custom data visualizations, complex batch processing pipelines, deploying to the AWS cloud, managing projects from start to finish, and creating rich user experiences in the browser. I am a clear communicator and consistently over deliver for my customers.

Professional Experience

LIONGARD, HOUSTON, TX

Software Engineering Consultant, April 2017 – Present

- Implementing automated UI functional tests using Nightwatch.js and Selenium.
- Writing containerized ‘inspectors’ which connect to third party devices and services to extract, parse, and evaluate configuration data, with the goal of identifying setups which do not meet industry security standards.

SIXNEXUS, HOUSTON, TX

Software Engineering Consultant, March 2017 – Present

- Building a search engine for Houston social services providers using Django and Elasticsearch.

WELL LOG DATA, HOUSTON, TX

Software Engineering Consultant, March 2017 – May 2017

- Writing custom web scrapers using Selenium and the Python scrapy framework.
- Automating image manipulation pipelines.

GROWTHINTEL, LONDON, UK

Software Engineering Consultant June 2016 - Present

Software Engineer, March 2015 – June 2016

- Leading a team in delivering a robust ETL framework using Python Luigi that included automated deployment with Ansible, scheduling and triggering, and data integrity reporting using Kibana.
- Leading a team in delivering a from-scratch rewrite of a legacy Backbone.js front end codebase in React.js.
- Refactoring a monolithic Python Tornado API into 3 domain separated micro-services.
- Building a micro-service which integrated our web app with Salesforce.com using the SFDC REST API.
- Speaking at bi-monthly company knowledge-sharing meet-ups on self-management, Python Luigi, creating pip packages, and browser networking.br
- Researching and revamping our internal git workflow and code review process.

LEARNING EQUALITY, SAN DIEGO, CA

Board Member,

Co-founder, President, January 2012 – November 2014

Learning Equality is a non-profit organization committed to enabling global access to high-quality open educational resources.

- Co-developed the initial KA Lite platform, a pure Python web app which provided offline learning communities access to Khan Academy content and an interactive learning experience.
- Raised over \$300,000 in grants and donations within the first year of the organization being founded.
- Led development of key partnerships with organizations including UNICEF, War Child Holland, and the Hewlett Foundation.

Education

UC SAN DIEGO, SAN DIEGO, CA

B.S Cognitive Science, with a specialization in Human-Computer Interaction, August 2009 - June 2013

Awards

- Houston Hackathon 2017 Winner (<https://devpost.com/software/houston-elibrary-portal>)

Presentations

- Barth, Dylan, & Coleman, Stuart (2015, June). *A Beginner's Guide to Building Data Pipelines with Luigi*. Presented at PyData London, London, UK.

Skills

- Python, Python libraries (web apps: Django, Flask), (web scraping: Scrapy), (batch processing: Luigi),
- JavaScript, JavaScript libraries (rendering: React.js), (client state management: Reflux.js, Redux.js),
- Databases: MySQL, Postgres,
- Search: Elasticsearch
- Cloud: AWS services including EC2, RDS, IAM, S3, KMS, Cloudfront, Cloudwatch, Lambda
- Training in User Experience Design