Conor D'Arcy

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Education

UCLA 2014-2017
Statistics, B.S.
Graduation, June 2017

Work Experience

Software Engineer, Intentionet **2016-Present**

- Updated and redesigned the JavaScript client for communication with the open source Batfish network verification server
- Design and construct an error logging system to notify engineers when the site loses connectivity
    - Built using bash, cron, and PHP
- Design a custom login system with verification and validation and an AWS backend
    - Built using html/css, javascript, PHP, and mySql

Software Engineer Intern, IBM **2015-2017**

- Used statistical prediction to reduce large query costs for DB2 system
- Drastically reduced development testing time by creating query mutation tool that generates and executes all possible test queries
    - Built using C, JavaScript, Java, HTML/CSS, JavaScript

Creator, Brighton Investment Advisors **2016-Present**

- Created website entirely from the ground up, including data collection and analytics
    - Built using HTML, CSS, javaScript, bootstrap

Personal Projects

Creator, JAX Artificial Assistant **2016-Present**

- Created a personal assistant who can open files, summarize stock data, run scripts, or open websites
- Utilizes Google Voice Recognition API to allow verbal communication with JAX
- Acquires more skills over time, storing learned commands as json files for later use
    - Built using Python

Creator, VectorCrypt hash algorithm **2014-2016**

- Currently in patent process with IBM
- Created a lightweight hash that is mathematically proven to be collision free with integrated salting
    - Built using PHP

Creator, persistentDictionary library **2016**

- Created a library that allows for storage of non-persistent data objects in hierarchical form
- Methods for storing, deleting, updating, and shuffling
    - Built using Python

Co-creator, AmOp optimization application **2015**

- Reduced average ambulance response time by 30%
- Through clustering historical data, found centroids of clusters and routed ambulances to these points
- Utilized Google Maps API to create an attractive user interface for drivers
    - Built using Node.js, JavaScript, HTML/CSS

Competitions

UCLA DataFest **2016**

- Ticketmaster asked for the best recommendation given 8gb of customer data
- My team and I created a time and location variate pricing model to increase revenue
    - Built using R

UCLA DataFest **2015**

- Increased customer turnover rate through a more targeted ad campaign
- My team and I extrapolated data into a click-density measurement, which we found to be strongly correlated with purchasing likelihood
    - Built using R and C++

Toolbox

C++	Linux/Unix	Python	R
JavaScript	SQL	SAS	Stata
SPSS	HTML/CSS	Java	PHP
Bash	DB2	Node.js	PLX