Conor D'Arcy

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

Work Experience
Software Engineer Intern, IBM   **2016**
- Used statistical prediction to reduce large query costs for DB2 system
- Converted a previously uniform distribution model into gaussian model
  - Built using PLX and predictive modeling

Software Engineer Intern, IBM   **2015**
- 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 through optimal parking location
- Through clustering historical data, found centroids of clusters and routed ambulances to these points
- Utilized Google Maps API to create an attractive userl 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	PLX	DB2