BRYNNE E. LYCETTE

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EDUCATION

Expected 2016 — **Analytics** — Master of Science, *University of San Francisco*

Relevant Coursework: Machine Learning, NoSQL, Data Acquisition, Time Series Analysis, Relational Databases, Linear Regression, Exploratory Data Analysis, Data Visualization, Business Strategies

2011 - 2015 — **Computer Science, Molecular Biology & Biochemistry** — Bachelor of Arts *Wesleyan University, CT*

Relevant Coursework: Data Structures, Algorithms and Complexity, Evolutionary Bioinformatics, Bioinformatic Programming, Logic Programming, Discrete Mathematics

EXPERIENCE

2016 - Present — **Data Scientist at Capital One Labs – Vault 8**

- Evaluated modeling software for increased accuracy of fraud classification: **H2O**, **Dato**
- R&D: Coded a genetic algorithm to classify fraudulent transactions

2012 - 2015 — **Undergraduate Head of Bioinformatics Lab**

Department of Biology, *Wesleyan* University | Supervisor: Michael Weir, Ph. D., Dept. of Biology

- Developed new technique for analyzing complex proteomes while using peptide-spectrum matching algorithms using **Python** and **SQL** scripts to decrease information loss
- Screened the Drosophila melanogaster proteome for downstream initiated translation and identified 274 high-confidence theoretical proteins
- Advised other undergraduates on database upkeep and best presentation practices

PROJECTS

2016 — **Recommendation System for Valve's Steam Library**

- Scraped Steam **APIs** and community sites with **Beautiful Soup** to collect game profiles (including user-defined tags from storefront) and public user data for training
- Performed **collaborative filtering** and **grid search** across tree depth and population in **Random Forests** to make user-specific recommendations based on past playtimes with **Spark MLlib**
- Recommended games using KModes clustering of game profiles with 88% accuracy
- Created RESTful web service on **AWS EC2** instance using **Flask** and **PostgreSQL** to store and query collected user and game data

2015 — **Sentiment Analysis of Yelp Restaurant Reviews**

- Investigated regional stereotypes by scraping Yelp reviews using **Beautiful Soup, API** and **PostgreSQL** before applying **NLP** to compare text reviews to quantitative ratings

TEACHING

2015 — **Scientific Computing and Informatics Tutor**

- Responsible for natural science crossovers; **Python**, **SQL**, bioinformatics techniques

2013 - 2014 — **Teaching Assistant**

Bioinformatics Programming, Python ● BIOL265 Intro to Programming, Python ● COMP112

SKILLS & ABILITIES

Languages

Python	MySQL
R	NoSQL
SML/NJ	PostgreSQL
Java	SAS

Tools

Dato	AWS	Tableau
H2O	pySpark	Jira
Apache Drill	Bokeh	Windows/Linux/Mac OS
Git	VirtualBox	