# A Courtney

California, United States
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*Seeking a full time position in Data Science. I have a unique combination of Bio based science and IT education. I have a passion for science and machine learning. Looking for a position that combines both the joy of the job and a fun work environment.I am open to remote positions. Hoping to work on some amazing projects and meet new innovative people.*

## Technical Skills

**Likes:** machine-learning html python-2.7 azure-virtual-machine svm css android-studio html5 supervised-learning unsupervised-learning deep-learning amazon-web-services javascript sql

## Experience

**Editor On-Line Journal Community** – Data Science in Healthcare | Zenodo *Sep 2016 → Current*
database, machine-learning, digital-health

Created an on-line journal & community to house data assets and articles generated by data scientists. Lead Review and Onboarding Committee, including a companion workshop series.The journal has both National and International reach supported by Cern and Zenodo. The on-line journal is receiving good reception by the community and 100% increase in uploads from inception.

Editor of the open source on-line journal

**PhD Lecturer in Machine Learning/Python** – Code District *Sep 2015 → Current*
supervised-learning, unsupervised-learning, machine-learning, python

Lecturer and instructor for community based IT projects involving teaching machine learning/python concepts and topics to individuals with no experience in machine learning. Providing hands on training in the general use of Python as a coding language, its application in machine learning. Designed and built statistical and machine-learning models and feature extraction systems. Used models and dashboards to solve business problems related to data pipeline, and communicated these solutions to students and learners in the area of machine learning and data analysis I have the ability to explain very complicated subjects in a plain easy to understand manner so those with no previous background can grasp the concepts. Expanded the Enterprise into machine learning and Python coursework which previously was not taught.

**PhD Candidate Researcher** – UC Davis *Jun 2009 → 2015*
jupyter-notebook, machine-learning, supervised-learning, unsupervised-learning

PhD coursework at UC Davis with concomitant educational development of machine learning theory and application centered around the use of the IPython/Jupyter notebook for machine learning algorithm development. Educational coursework background in statistics and statistical analysis. Genomic analysis using UC Davis Galaxy- chromosome file sizes range average 5 GB per file and scale up for alignments and analysis to terabytes of data.Scale managed by data caching and cloud computing. Improvement of 6 percent increase of the area under the ROC curve achieved using multi-resolution spaces to train a logistic regression model.

## Education

**PhD** – University California Davis *Jun 2009 → Sep 2015*
integrative-pathobiology

PhD Integrative Pathobiology. Training in machine learning, statistics, big data genomic analysis. Machine Learning: classification, regression, clustering, feature engineering, supervised/unsupervised learning and reinforcement learning Statistical Methods: time series, regression models, hypothesis testing and confidence intervals, principal component analysis and dimensionality reduction, stochastic differential equations (SDEs), clustering Software and Programming Languages: Python (scikit-learn, numpy, scipy, pandas), R, SQL, Linux, and JavaScript Selected Coursework: Linear Algebra, Probability and Statistics (Experimental and Biostatistics)

NIH T32 Fellowship Award President of the Graduate Group 2014-2015

## Certifications

**SQL** *2015 → 2016*
sql, mysql, sql-server

**JavaScript** *2015 → 2016*
javascript

**Front End Developer Certification** *2015 → 2016*
html5, css, javascript, angular-ui-bootstrap, jquery