

# Ladan Doroud

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**Address:** San Francisco, CA

## Skills and Expertise

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**Background:** Data Analysis, Computational Biology and Bioinformatics, Big Data, Algorithms, Genomics, Network Analysis, Machine Learning, NGS, Genotyping, Population Genetics, Research, Deep learning, Product Management, Mathematical and Statistical Modeling, Microbiome

**Programming Languages:** Python, Bash, AWK, SQL, C++, Perl

**Machine Learning:** Scikit-learn, Tensorflow (Keras)

**Computing:** Amazon AWS, HPC, Slurm, Git, Jupyter

**Analytics:** Python data science packages (networkx, pandas, numpy, scipy, matplotlib), Plink, Gephi, QIIME

**Big Data:** Hadoop (Map Reduce), Spark

## Experience

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**Ancestry.com – Genomics Data Scientist (Staff Scientist)** **2017 - Present**

AncestryDNA team

Extensive algorithm and software development as well as project management for Matching, Genetic Communities as well as Health products

**Insight Data Science – Fellowship** **Summer 2016**

Machine Learning and Anomaly detection in Lending Club data

**Ancestry.com, Inc. – Internship** **Summer 2015**

AncestryDNA team: Computational Biologist

**Udacity, Inc. – Internship** **Summer 2014**

Course Manager on Data Science Nanodegree

**Jonathan Eisen's Lab – Graduate Student Researcher** **2010 - 2017**

Designing and implementing novel approaches toward community detection, role discovery and function prediction in large-scale networks

## Education

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**University of California, Davis – PhD in Computer Science** **2010-2017**

Dissertation Topic: Network Analysis in Microbial Systems

**University of California, Davis - Master in Computer Science** **2010-2013**

**Shahid Beheshti University - B.Sc. in Computer Science** **2006-2010**

## Awards

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- **Google Code Jam:** Won Google Code Jam to I/O 2016 contest for women