Education	University of California, Berkeley 8/2014 - 12/201 Bachelor of Science in Electrical Engineering and Computer Scienc GPA: 3.977/4.0
	Relevant Coursework: Algorithms for Computational Biology, Artificial Intelligence, Computer Security, Data Structures, Databases, Efficient Algorithms Machine Learning, Machine Structures, Operating Systems
Research Experience	UC Berkeley AmpLab Adviser: Anthony Joseph, David Patterson • Develop filtering and visualization techniques for Mango, a data visualization interface that allows ad hoc queries and modification on genetic data • Applications of machine learning and distributed computing for Gnocchi, project to determine phenotype-genotype associations - papers pending
	Machine Learning at Berkeley • Conduct research in music recommendation using content-based analysis machine learning techniques • Worked on improving featurization techniques through latent factor analysis
	and designing functional neural networks **UC Berkeley URAP** **Adviser: Dawn Song* • Used machine learning to determine encrypted malware* • Focus on polymorphic code analysis and detection of common encryptio techniques*
Presentations	Improving Music Recommendation: Featurizing Audio UC Berkeley Undergraduate Research Symposium Mango: Data Exploration on Large Genomic Datasets UC Berkeley Undergraduate Research Symposium 5/201
Honors/Awards	American Statistical Association Datafest Overall Winner Cal Alumni Association Leadership Award National Merit Scholar 3/201 8/201 8/201
Teaching Experience	Course Reader - Lab Assistant EE16B Designing Informational Devices II, UC Berkeley Lab Assistant CS61A Structure & Interpretation of Computer Programs, UC Berkeley Berkeley

Software Engineer Intern

Google Inc, Mountain View, CA

Industry

Experience

5/2016 - 8/2016

- Developed with: Golang, Polymer, C++, AngularJS, Javascript, Borg
- Search Indexing Create experiment pipeline tools for machine-learning focused tests

Data Science Consultant

1/2016 - 5/2016

Grand Rounds, San Francisco, CA

- Developed with: Python, AWS, Spark
- Analysis of health care data to detect important signals in predicting patient cared tests using PCA, SVMs, and decision trees

Software Engineer Intern Google Inc, Portland, OR

5/2015 - 8/2015

- Developed with: Dart, Python, Polymer, Google App Engine
- Lead project to create https://dartpad.dartlang.org
- Conducted UX and usability research in London

Engineering Intern

6/2014 - 8/2014

Audience Inc, Mountain View, CA

- Developed with: Python, Java, Android SDK, Robot
- Host software deployment ensuring compatibility on eS704 and eS774 chips

Projects

UC Berkeley Statistics DataFest

April 2016

Best in Show — Overall Winner

• Apply machine learning and statistical models to predict TicketMaster data

Sentiment Chat

October 2015

CalHacks 2015 — Moxtra API Winner

- http://devpost.com/software/sentiment-chat
- Natural language processing and analysis of message sentiments

3D Modeling - Microsoft Kinect

January 2014

Carleton College

- https://github.com/Georgehe4/kinectproject
- Creation of navigable 3D point cloud using C++, Microsoft Kinect & OpenGL libraries sentiments

Societies and **Organizations**

American Statistical Association, Member

2/2016 - Present

Tau Beta Pi, Member

1/2016 - Present

Eta Kappa Nu, Bridge Officer (Historian)

1/2015 - Present

Technical Skills Experienced: Python • Java • C • C++ • Javascript • Dart • Scala • Go

Familiar: MySQL • Swift 2

Frameworks: Apache Spark • Apache Hadoop • scikit-learn • TensorFlow

Languages

Fluent: English, Chinese (Mandarin)

Proficient: Spanish