

George He

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Education	<i>University of California, Berkeley</i> Bachelor of Science in Electrical Engineering and Computer Science 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	8/2014 - 12/2016
Research Experience	<i>UC Berkeley AmpLab</i> Adviser: Anthony Joseph, David Patterson <ul style="list-style-type: none">• 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, a project to determine phenotype-genotype associations - papers pending <i>Machine Learning at Berkeley</i> <ul style="list-style-type: none">• 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 <i>UC Berkeley URAP</i> Adviser: Dawn Song <ul style="list-style-type: none">• Used machine learning to determine encrypted malware• Focus on polymorphic code analysis and detection of common encryption techniques	1/2016 - Present 1/2016 - Present 8/2015 - 12/2015
Presentations	Improving Music Recommendation: Featurizing Audio UC Berkeley Undergraduate Research Symposium Mango: Data Exploration on Large Genomic Datasets UC Berkeley Undergraduate Research Symposium	5/2016 5/2016
Honors/Awards	American Statistical Association Datafest Overall Winner Cal Alumni Association Leadership Award National Merit Scholar	3/2016 8/2014 8/2014
Teaching Experience	Course Reader - Lab Assistant EE16B Designing Informational Devices II, UC Berkeley Lab Assistant CS61A Structure & Interpretation of Computer Programs, UC Berkeley	Spring 2016 Spring 2015
Industry Experience	<i>Software Engineer Intern</i> Google Inc, Mountain View, CA	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 **5/2015 - 8/2015**

Google Inc, Portland, OR

- 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