George He

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Education	***Harvard Law School***	**09/2019 - 05/2022**

Juris Doctor

Coursework: Civil Procedures, Contract Law, Criminal Law, Torts, Property Law, Constitutional Law, Legislation & Regulation

Stanford University   **09/2018 - 06/2019**

Master's in Computer Science (AI Concentration)
GPA: 3.944

Coursework: Computer Vision, Computer Graphics, Programming Languages, Social and Information Network Analysis, Convex Optimization, Natural Language Processing, Probabilistic Graph Models, Reinforcement Learning

University of California, Berkeley   **December, 2016**

Bachelor of Science in Electrical Engineering and Computer Science
Graduated with Highest Honors (top 3%). GPA: 3.981

Coursework: Algorithms for Computational Biology, Artificial Intelligence, Computer Security, Data Structures, Databases, Efficient Algorithms, Machine Learning, Machine Structures, Operating Systems

Industry Experience

Software Engineer - Technical Lead   **1/2017 - 09/2019**
Google Inc, Cambridge, MA
- Google Cloud Monitoring - Stackdriver
- Cloud resource metadata collection and reporting backend
- Scale and architect backend for resource metadata collection and analysis of billions of resources

Software Engineer Intern   **5/2016 - 8/2016**
Google Inc, Mountain View, CA
- Search Indexing - Create experiment pipeline tools for machine-learning focused tests
- Enable analysis of indexing changes due from different ranking methodologies

Data Science Consultant   **1/2016 - 5/2016**
Grand Rounds, San Francisco, CA
- 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
- Lead project to create https://dartpad.dartlang.org
- Conducted UX and usability research in London

Research Experience

Stanford Partnership in AI-Assisted Care   **1/2019 - 03/2019**
Advisers: Feifei Li, Edward Chou
- Researched methods of computer vision applied to medical care
- Created neural network models trained to identify patient actions from low resolution depth images

UC Berkeley AmpLab   **1/2016 - 12/2016**
Advisers: Anthony Joseph, David Patterson, Alyssa Morrow

- 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

Machine Learning at Berkeley   1/2016 - 12/2016
- 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   8/2015 - 12/2015
Adviser: Dawn Song
- Used machine learning to determine encrypted malware
- Focus on polymorphic code analysis and detection of common encryption techniques

Certifications	**USPTO - Patent Agent**	**08/2018**

Papers &	***Mango: EDA for Large-Scale Sequencing Datasets.*** **Cell Systems. 12/2019**
Presentations	https://doi.org/10.1016/j.cels.2019.11.002 **Gazing into the Abyss: Real-time Gaze Estimation** 11/2017
	http://arxiv.org/abs/1711.06918
	Improving Music Recommendation: Featurizing Audio 5/2016
	UC Berkeley Undergraduate Research Symposium - 2016

Teaching	**Course Reader and Lab Assistant**	**Spring 2016**
Experience	EE16B Designing Informational Devices II, UC Berkeley	
	Lab Assistant	**Spring 2015**
	CS61A Structure & Interpretation of Computer Programs, UC Berkeley	

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

Honors/Awards	**American Statistical Association Datafest Overall Winner**	**3/2016**
	Cal Alumni Association Leadership Scholarship	**8/2014**

Technical Skills   *Experienced:* Python • Java • C • C++ • Javascript • Dart • Scala
Familiar: GoLang • MySQL • Swift 2
Frameworks: Apache Spark • Hadoop • TensorFlow • OpenGL • OpenCV

Hobbies   Dragon Boat, Rock Climbing, Chinese Violin