

# George He

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## EDUCATION

### STANFORD

**M.S. COMPUTER SCIENCE**  
GPA: 4.00  
Concurrent

### UC BERKELEY

**B.S. ELECTRICAL ENG. & COMPUTER SCIENCE**  
Highest Honors (Top 3%)  
GPA: 3.981/4.0

## SKILLS

### GENERAL

API Design  
System Design  
Software Architecture  
Database Systems  
Distributed Computing  
Machine Learning  
Advanced Algorithms  
Computer Networks  
Computer Security  
IP Law

### LANGUAGES

#### Experienced:

Python • Java • Scala • C  
C++ • Javascript • Go • Dart

#### Familiar:

MySQL • Swift 2 • OCaml

### FRAMEWORKS

#### Experienced:

Spark • Hadoop • Polymer  
Google Cloud Platform  
jQuery • AngularJS

#### Familiar:

Scalatra

## CERTIFICATIONS

### PATENT AGENT

#### USPTO

August, 2018

## LINKS

GitHub:// georgehe4  
LinkedIn:// georgehe4  
Portfolio:// georgehe.me

## EXPERIENCE

### GOOGLE - TECH LEAD - CLOUD MONITORING SOFTWARE ENGINEER III

Jan 2016 - Present | Java, C++, Python | Cambridge, MA

- Design and launch multiple APIs for data collection across all GCP services
- Design systems to handle 100k+ QPS and billions of resources  
e.g. <https://cloud.google.com/kubernetes-monitoring>
- API governance reviewer - enforcing API uniformity across Google

### GOOGLE - SEARCH INDEXING

### SOFTWARE ENGINEER INTERN

May 2016 - Aug 2016 | Golang, Polymer, AngularJS | Mountain View, CA

- Tooling and infrastructure for machine-learning pipelines

### GRAND ROUNDS - PHYSICIAN QUALITY

### DATA SCIENCE CONSULTANT

Jan 2016 - May 2016 | Python, AWS, Spark | Berkeley, CA

- Design and analyze prediction pipelines for health care data to detect important signals that affect patient care

### GOOGLE - ADS

### SOFTWARE ENGINEER INTERN

May 2015 - Aug 2015 | Dart, Python, Polymer, Google App Engine | Portland, OR

- Lead project to create frontend/backend for <https://dartpad.dartlang.org>
- Conducted UX and usability research in London

### PHOTO LAB | ACQUIRED BY DROPBOX

### SOFTWARE ENGINEER INTERN

January 2013 - June 2013 | Objective C | Palo Alto, CA

- Design and create a cross-platform photo sharing app for Android and ios

## RESEARCH

### UC BERKELEY AMPLAB

### UNDERGRADUATE RESEARCHER

January 2016 - December 2016 | Berkeley, CA

- Mango, a distributed genetic sequence visualization tool for big data
- Preprint: <https://www.biorxiv.org/content/early/2018/07/03/360842.1>

### MACHINE LEARNING AT BERKELEY

### UNDERGRADUATE RESEARCHER

January 2016 - December 2016 | Berkeley, CA

- Music recommendation - latent factor analysis and functional neural networks

### UC BERKELEY SONGLAB

### UNDERGRADUATE RESEARCHER

August 2015 - December 2015 | Berkeley, CA

- Design and apply machine learning techniques to identify encrypted malware - focus on polymorphic code and common attack vectors

## PROJECTS/COMPETITIONS

### UC BERKELEY STATISTICS DATAFEST

### BEST IN SHOW | OVERALL WINNER

April 2016 | Python, Spark, R

- Apply ML and statistical models to predict TicketMaster sales data

### SENTIMENT CHAT

### CALHACKS 2015 | MOXTRA API WINNER

October 2015 | <http://devpost.com/software/sentiment-chat> | Azure, Python

- Natural language processing for analyzing message sentiments

### 3D MODELING - MICROSOFT KINECT

### 3D IMAGE PROCESSING

January 2014 | <https://github.com/Georgehe4/kinectproject>

- Create navigable 3D point cloud using C++, Kinect & OpenGL libraries