


# Benjamin Eisner

ben.a.eisner@gmail.com 

+1 (732) 589 2380 

beneisner 

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## Software Engineer and Researcher

with experience building backend applications for cloud systems and conducting machine learning research for NLP and neuroscience. Interested in machine learning research and applications in robotics, and actively looking for related projects.

## Education

2013-  
**Princeton University**  
B.S.E. in Computer Science  
GPA: 3.5

Relevant Coursework:  
*Artificial Intelligence*  
*Distributed Systems*  
*Adv. Programming Techniques*  
*Functional Programming*  
*Orbital Dynamics*

Spring 2016  
**University College London**  
Affiliate Student in Computer Science

Relevant Coursework:  
*Human-Robot Interaction*  
*Processing of 3D Geometry*

2009-2013  
**Middlesex County Academy**  
for Science, Math, and Engineering  
U.S. Presidential Scholars Nominee  
National Merit Scholar  
GPA: 4.0

## Research

2016  
[emoji2vec: Learning Emoji Representations from their Description](#)  
*Eisner, Rocktäschel, et. al.*  
*Best Paper at SocialNLP - EMNLP 2016 Workshop*  
Learned emoji embeddings using a novel definition-based approach, implemented in TensorFlow. Analyzed semantic relationships and demonstrated utility w.r.t. semantic analysis tasks.

[Reconstructing Physical Neural Networks with Deep Neural Networks](#)  
*Advisor: Sebastian Seung*  
(Ongoing) Investigating various deep learning approaches to reconstructing topology/ connectivity of neurons from brain images captured with an electron microscope.

## Experience

Summer 2016  
**Software Engineering Intern**  
Google Inc. | Kirkland, WA

Backend development on the Google Compute Engine team. Designed and implemented custom Identity and Access Management (IAM) policy enforcement infrastructure for a critical administrative service. Completed internal TensorFlow training course.

Summer 2015  
**Software Engineering Intern**  
Microsoft Corporation | Redmond, WA

Full-stack development on the Skype for Business team. Experimented with porting desktop video conferencing software to Android using Xamarin. Also built an SSL certificate configuration tool for an embedded video conferencing product.

Summer-Fall 2014  
**Software Engineering Intern**  
Klink Inc. | New York, NY

Backend development at a business intelligence startup in NYC. Designed enterprise phone integration for a pilot customer, and created a credential management service.

Summer 2013  
**Software Development Intern**  
Konica Minolta Medical Imaging | Wayne, NJ

Designed an integrated caller-ID application for service center employees.

## Activities

**Princeton Entrepreneurship Club**  
Director of Careers Team (2015-2016)  
HackPrinceton Officer (2014-2015)

**Princeton Varsity Hwt. Rowing**  
Division I program, 18hrs/week  
Freshman and Sophomore Year

**Lobster Club Improv Comedy**  
Princeton's first and only no-audition improv group, specializing in short/medium form (2014-)

**Hip-Hop Dance**  
Triple 8 Dance Company | Hip-Hop (2016-)  
Sympoh Urban Arts Crew | Breakdancing (2016-)

## Skills

**Programming**  
Java, Python, Go, C, C++, C#, JS, HTML, CSS, OCaml, MATLAB

**Frameworks/Tools**  
TensorFlow, Guice, Xamarin, .NET, go-restful, Qt, Git, MongoDB, AWS, TravisCI

**Software**  
Photoshop, InDesign, Illustrator, Logic Pro, IntelliJ

**Languages**  
English, Chinese (Mandarin), Spanish