

# Benjamin Bolte

Data Scientist

## WORK EXPERIENCE

FALL 2016

Software Engineer Intern

### *Google Handwriting Recognition*

Improved mixed-script online handwriting recognition for Chinese-English and Devanagari-English language pairs by training a TensorFlow model to combine existing models. Designed and built a program to train Generative Adversarial Network for producing handwriting using recurrent neural networks with attention components on a Google-scale computer cluster.

SUMMER 2016

Software Engineer Intern

### *Amazon India Invoicing Platform*

Built three APIs for interacting with the existing India invoicing service, and built a web framework for helping customer-facing product managers answer questions and solve bugs. After finishing the project ahead of schedule, I helped diagnose and fix a Severity 2 issue stemming from configuration issues in AWS, which affected millions of dollars in transactions.

## COMMUNITY ENGAGEMENT

2016

Mentor

### *CalHacks 3.0*

I mentored students at UC Berkeley's 3rd annual hackathon, helping them diagnose issues and come up with ideas for different projects, sometimes at 3 a.m.

2013 – 2014

Volunteer tutor

### *RAYA After-school Tutoring*

For three hours each week, my church group traveled to a refugee community in Clarkston, GA to help tutor students there in their school subjects, primarily Math and English. Participating in this program showed me how much young children emigrating to another country struggle to adapt to new cultures and customs, and it helped me identify more strongly with refugee crises around the world.

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## HONORS

2016 **Facebook Hacker's Cup Round 2**

2015 **2nd Place, ACM ICPC**

2014 **Dean's Achievement Scholarship**  
*Top merit scholarship at Emory*

2014 **CompNeuro Training Grant**  
*NIH Blueprint Grant*

## EDUCATION

2013 – 2017 **BS + MS**  
COMPUTER SCIENCE AND MATH  
*Emory University, Atlanta, GA*

## PUBLIC PROJECTS

2016 **keras language modeling**  
*Keras Language Modeling tutorial*

2016 **deep learning tutorial**  
*Given at PyData Carolinas 2016*

2017 **gandlf**  
*Framework for training GANs with Keras*

## COMMUNICATION SKILLS

ENGLISH	Native speaker
SPANISH	Intermediate conversational
CHINESE	Elementary conversational

## SOFTWARE SKILLS

GOOD LEVEL	TensorFlow, Theano, Keras, Python, Java, git
INTERMEDIATE	Lua, $\text{\LaTeX}$ , MySQL, C++, Git, LabVIEW
BASIC LEVEL	Bash, C, AWS