Benjamin Bolte

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Employment

Software Engineer, Intern — **Amazon India Invoicing, Summer 2016**

- 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

Software Engineer, Intern — **Google Handwriting Recognition, Fall 2016**

- Improved mixed-script online handwriting recognition for Chinese-English and Devanagari-English language pairs
- Trained a Generative Adversarial Network for producing handwriting using recurrent neural networks with attention components (to attend to the desired text)

Software Engineer, Intern — **Facebook, Summer 2017**

Education

- **M.S. in Computer Science and Mathematics** Emory University, advised by Avani Wildani — December 2017
- **B.S. in Computer Science and Mathematics** Emory University, GPA: 3.84 — December 2017

Awards

- **Facebook Hacker's Cup** Got to Round 2, one of 2299 worldwide — 2016
- **Dean's Achievement Scholarship** Top undergraduate merit award — 2014
- **Computational Neuroscience Training Grant** NIH Blueprint Grant for studying computational neuroscience — 2014

Academic

- **Deep Language Modeling for Question Answering using Keras** — Pydata Carolinas 2016
  B. Bolte. YouTube ID: bvZnphPgz74
- **FPAA Demonstration Controlled through Android-Based Device** — ISCAS 2016
  B. Bolte, S. Shah, S. Kim, P. Hwang, and J. Hasler

Projects

For a complete list, consult github.com/codekansas

- **keras-language-modeling** Language modeling tutorial for Keras, explaining how to build a question-anwering system that uses neural networks for re-ranking candidate answers
- **tinier-nn** Binarized neural network implementation for running on microprocessors like Arduinos
- **electric longboard** Mounted a motor to my longboard, which I have since crashed into a sidewalk. Designed and waterjet cut the mount, 3D printed the battery holders, and wrote the Arduino code for interfacing with an RF remote