

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

Publications

- **FPAAs 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-answering system that uses neural networks for re-ranking candidate answers
- **tinier-nn** Binarized neural network implementation for running on microprocessors like Arduinos
- **pydata-carolinas-2016** Deep Learning introduction given at PyData Carolinas 2016, attended by over 40 people
- **spikefinder** When submitted, was the state-of-the-art model for spike inference from calcium imaging recordings