Kevin Berry

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Education	***Georgia Institute of Technology**, Atlanta, GA*, August 2015 - December 2018 *Bachelor of Science in Computer Science* *Concentrations:* Intelligence, Modeling and Simulation *GPA:* 3.96/4.0
Selected Coursework	Machine Learning, Linguistics, Computer Vision, Algorithms, Compilers, Automata and Complexity, Probability and Statistics, Linear Algebra, Differential Equations
Computer Skills	**Languages: Python, C, Rust, Java, JavaScript and HTML, Go, Haskell** *Software and Tools:* Scikit, PyTorch, Keras, Tensorflow, NGINX, uWSGI, spaCy, Pandas, Dask, Git, Linux, IntelliJ, Vim, Elasticsearch, MongoDB, SQL, LaTeX

Experience

Machine Learning Engineer June 2017 - Present
Worthix, Alpharetta, Georgia
- Developed API for many-label, multi-output document classification
- Deployed classification models including LSTMs, SVMs, and Maxout networks
- Prototyped an online ensemble tagging system to improve document tag quality

Teaching Assistant May 2016 - December 2017
CS 2110, Computer Organization and Programming
- Led recitations on C, RISC Assembly, CPU datapaths, and digital logic
- Wrote software to automate grading of Java programs and circuits

Database Manager May 2015 - August 2016
Institute for Advanced Medical Research, Alpharetta, Georgia
- Created a model to predict the ratio of patient leads to clinical trial stages
- Wrote scripts to automate processes such as form entry and data reporting

Selected Projects

Readability Analyzer January 2017 - July 2018
- Counts text features including sentences, characters, and syllables
- Assigns average text grade level based on several readability scores

Minimum Vertex Cover Algorithms November 2017 - December 2017
- Uses one of 7 algorithms to solve NP-Complete minimum vertex cover problem
- Introduces a novel approximation algorithm which achieves state of the art accuracy with significant speedup on 10 out of 11 tested real-world datasets

Ivan Allen Digital Archive User Interface September 2017 - May 2018
- Search interface, visualizations, and editable transcripts for document archive
- Used Tesseract and spaCy to extract and tag text in document graph

Ordinary Differential Equation Graphing Calculator October 2017
- Graphs slope fields, direction fields, and component plots for ODEs
- Plots approximate solutions using Euler's method or Runge-Kutta method

LC3 Simulator March 2017
- 2-pass assembler, disassembler, and simulator for the LC3 (Little Computer 3)

Extracurricular Activities

The Agency at Georgia Tech *(Communications Officer)*
- Gave a talk on semi-supervised and multitask learning
- Designed and put up posters for Agency talks and events

Theory Club at Georgia Tech *(Communications Officer)*
- Gave a talk on cryptographic algorithms, such as AES and Diffie-Hellman
- Gave a talk on Turing completeness and surprisingly Turing complete programs
- Designed and put up posters for Theory Club talks and events