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Education:

College of Engineering at University of Illinois, Urbana-Champaign
Master of Computer Science, 3.76/4.00 — 2015 - 2016
B.S of Computer Science, 3.45/4.00 — 2010 - 2014

Engineering Experience

Apple, Inc — Sunnyvale, CA
Software Engineer (Network Infrastructure) — 2015 - Present

- Built a performance monitoring system. The architecture included the agent, a message bus, a parallel processing engine, and an analytics engine.
- Technologies included LKM, Hadoop and Spark, Kafka, and OpenTSDB.
- My responsibilities included; the agent written in Go lang, the spark job to process the data, and the chart visualization of the performance data in OpenTSTB.
- Currently developing the analytics and anomaly detection for the data.

Enova Financial — Chicago, IL
Software Engineer — 2014 - 2015

- Heavily focused on XP practices and TDD using the Rails Prime stack and contributing as a team member to various projects.
- My responsibilities and challenges include areas such as parallel processing and performance optimizations.

Notable Projects/Computing Interests

Thanatos — Sunnyvale, CA
Designer/Implementer — 2016

- I created an algorithm with can classify parts of a web page into 'data entities'.
  - Utilized kMeans clustering, PU-Learning, and some 'insights' into the visual representation of elements on a webpage.
- https://www.youtube.com/watch?v=joeQwG8h5Us

Stockit — Chicago, IL
Team Member — 2014

- Created a machine-learning algorithm that uses a news document clustering to forecast daily stock price changes.

Ask Snoo — Champaign, IL
Team Member — 2014

- This project primarily focused on being a complete text information system that checks the validity of sentences.

Image Analyzer — Champaign, IL
Team Member — 2014

- The project focused primarily on scrapping credit card images from the web and retrieving the plain-text numbers from them.

Additional Information:

Github: https://github.com/johnmcconnell
Software Languages: Ruby, Java, and Go.
Academic Experience: Machine Learning, Artificial Intelligence, Object Oriented Design, Fundamental Algorithms, Computer Security, System Programming, and Computer Architecture