

STEPHEN BRENNAN

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EXPERIENCE

YELP, San Francisco, CA

Software Engineer, Spam Team, October 2016 – Present

- Leading project to improve XGBoost model impacting millions of reviews.
- Built real-time streaming system for filtering and forwarding hundreds of messages per second to a third party via Amazon SQS.
- Migrated Hadoop map-reduce jobs to Apache Spark.

Intern, Spam Team, May 2016 – August 2016

- Improved user security by blocking messages containing dangerous URLs.
- Researched new features for improving URL spam classification in machine learning classifiers.
- Migrated credit card transaction blocking system to a service oriented architecture.

CASE WESTERN RESERVE UNIVERSITY, Cleveland, OH

Undergraduate Research, May 2014 – September 2015

- Used Python, Pandas, and NumPy to build a tool that analyzed binary combinations of somatic mutations in cancer patients to discover relationships with various phenotypes.

LECO, St. Joseph, MI

Intern, Separation Science, May 2013 – August 2013

- Implemented GPU-accelerated graph traversal feature in C++.
- Wrote build scripts in Python and developed Windows Installers.

EDUCATION

CASE WESTERN RESERVE UNIVERSITY, Cleveland, OH

Master of Science, Computing and Information Science, August 2017

Bachelor of Science, Computer Science, May 2017

- Honors: *Summa Cum Laude* (GPA: 3.97/4.0)

SKILLS

- Very experienced in Python, C, and SQL.
- Experienced in Go, Java, and C++.
- Experienced with Apache Spark, Git, Docker, Linux Kernel Development, and Multipath TCP.

PUBLICATIONS

Improving Communication Through Overlay Detours: Pipe Dream or Actionable Insight?

Stephen Brennan & Michael Rabinovich, IEEE International Conference on Distributed Computing Systems, July 2018

Exploring Alternative Routes Using Multipath TCP

Stephen Brennan, Master's Thesis, August 2017