Connor Zanin

Contact Information

Cell: 781-879-2258
Email: cnnrznn@gmail.com
Website: `https://connorzanin.com`

Technology Interests

Distributed Systems, Fault Tolerance and Recovery, Cloud Computing, Process Migration, Collaborative Systems

Education

Northeastern University, Boston, MA

Master of Science in Computer Science **[Expected] May 2020**

- Advisors: Alan Mislove, Cristina Nita-Rotaru

University of Delaware, Newark, DE

B.S. in Computer Science **May 2016**

- Graduated: May 2016
- Thesis: *Capturing the Mapreduce Performance Landscape*
- Advisor: Dr. Michela Taufer

Professional Experience

Northeastern University, Boston, MA **September 2016 – present**
Research Assistant

- *PicoJump:* A system for process migration. Enables transparent use of distributed hardware resources. Presents the first distributed migration algorithm. Built with Linux, Linux containers (LXC), and Checkpoint/Restore In Userspace (CRIU)
- *Dustoff*: A framework for automating testing and bug finding within distributed consensus systems. Leverages Docker to quickly launch, test, and evaluate systems for performance and liveness. Uses linux traffic control (tc) and Docker for fault injection

Global Computing Laboratory, Newark, DE **May 2015 – May 2016**
Research Assistant

- *HYPPO:* Developed a hybrid ML approach for tuning the configuration parameters of a popular MapReduce tool, Apache Spark

EM Photonics, Newark, DE **September 2014 – May 2015**
Software Engineering Intern

- *Software development:* Developed features and fixed bugs for a video processing application.
- Contributed to a mature C++/Boost code base
- Automated developer environment deployment

Nasdaq OMX, Marlborough, MA **June 2014 – August 2014**
QA Software Engineering Intern

- *Performance testing automation:* Developed framework and tests for performance evaluation of a web application with Java and Apache JMeter
- *Performance evaluation:* Evaluated full-stack performance characteristics of a web application. Compiled findings in a reference document for business planning.

Lattice Engines, Boston, MA **June 2013 – August 2013**
QA Software Engineering Intern

- *Automated unit testing:* Developed automated testing for a web application with C# and Selenium
- Made enhancements to the existing unit test framework.

Skills

Programming Languages: Golang, Python, C, C++, Java, C#, Clojure, Haskell, Javascript
Technologies: git, Docker/Containers, Spark, Kubernetes, Zookeeper
Operating Systems: Linux, Windows