

Bryan Learn

WORK EXPERIENCE

CURRENT, FROM APRIL 2014

Network Programmer
PITTSBURGH SUPERCOMPUTING CENTER
Pittsburgh, PA

- Designed and wrote the SDN controller and RESTful API for the NSF-funded project, DANCES.
- Created NOC-oriented web applications to display monitored network measurements, utilizing Web10G metrics.
- Designed a NoSQL schema for storing TCP flow metrics in InfluxDB, a time series database, and integrated it with data visualization web applications.

AUG. 2013 – APRIL 2014

Applications Administrator
SHIPPENSBURG UNIVERSITY
Shippensburg, PA

- Coordinated with systems and business administrators to roll out a new degree audit system to 7,000+ users.
- Helped transition from a legacy in-house system to a 3rd party Oracle solution by writing conversion tools and replacing Perl scripts with PL/SQL scripts.

JAN 2013 – AUG. 2014

Graduate Assistant
SHIPPENSBURG UNIVERSITY
Shippensburg, PA

- Wrote bash and PL/SQL scripts to support application data flows.

SUMMER 2012

Student System Administrator
SLIPPERY ROCK UNIVERSITY
Slippery Rock, PA

- Created education materials and configured two Beowulf clusters for Computer Science curriculum use.

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EDUCATION

2014 **Master of Science**
COMPUTER SCIENCE
Shippensburg University of Pennsylvania

2012 **Bachelor of Science**
COMPUTER SCIENCE
Slippery Rock University of Pennsylvania

TECHNICAL SKILLS

Machine Learning: Deep Learning, CNNs, NLP
Networking: SDN, OpenFlow, TCP/IP
Web Development: JavaScript, Node.js, React
System Programming: C, Python, Java
System Administration: Linux, NoSQL

RESEARCH INTERESTS

Machine Learning, Telemetry Analysis,
Software Defined Networking, Graph Theory

CERTIFICATIONS

2018 Deep Learning, a 5-course specialization by deeplearning.ai on Coursera.

PUBLICATIONS

2016 Proceedings of the XSEDE16 Conference
"Developing Applications with Networking Capabilities via End-to-End SDN (DANCES)".
Article No. 29

CONFERENCE TALKS

2015 Berkeley, California ESnet Conference
"Developing Applications with Network Capabilities via End-to-End SDN"