

## EXPERIENCE

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### Software Engineering Institute/Carnegie Mellon University

Pittsburgh, PA

Assoc. DevOps Engineer

05/2022 - Present

- Worked with government customers to deliver software solutions using various DevOps technologies.

### Kutztown University of PA

Kutztown, PA

Instructor

08/2019 - 05/2022

- Facilitate and deliver lectures for undergraduate computer science courses. Primary topics taught include:
  - Computer Science I (taught using **C++**)
  - Data Analysis using **Python** & Pandas
  - Data Visualization with Tableau
  - Computer Networks (Focus on App-Layer Protocols and overview of TCP/IP Reference Layers)
  - Linux (Filesystem Overview, Basic Commands, Processes, Text Processing, Scripting)
  - Computing Systems Integration
- Serve on departmental and university-wide committees.
- Maintain various PHP web applications used by the CS&IT Department.

### Kutztown University of PA

Kutztown, PA

Graduate Assistant

08/2018 - 05/2019

- Assisted with data collection for an *NSF* grant.
- Held tutoring hours for undergraduate computer science students.

### St. Lukes University Health Network

Allentown, PA

Data Reporting Internship

05/2018 - 08/2018

- Improved and added features to an existing **Python** application used to verify links between records in vendor-specific databases.
- Created **Python** selenium script used to automate downloading of CSV files from a web application.

## EDUCATION

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### Kutztown University of PA

- Data Analytics Graduate Certificate Dec. 2020
- Master of Science (Computer Science) May 2019
  - Focus: *Computer Networks*
- Bachelor of Science (Computer Science) May 2018

## PROJECTS

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### Kutztown University

- Collaborated with University IT department on various projects to improve student learning.
- Helped craft grant proposal for NSF *CS4All* grant which was accepted early 2021, with the focus on developing a CS curriculum framework to introduce K-12 students to CS topics. Will be serving on the advisory board and help with running and leading workshops for 6 days in 2022-2023.

### KU - Graduate Studies

- Graduate Group Project which focused on designing a computer network for a fictional university. Group was tasked with selecting equipment, creating network room layouts, and subnetting our allocated IP block.
- Developed distributed chat server for Linux using **C++** with a multi-process server that kept client records in shared memory.

## SKILLS

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### Technical

- **Programming Languages** - Python, C++
- **Computer Networking** - DNS, HTTP, Routing, TCP/IP Reference Model
- **Linux System Administration** - BASH Scripting, Management, Software Installations