

Patrick Earl

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Allentown, PA

EXPERIENCE

Kutztown University of PA

Instructor

Kutztown, PA

08/2019 - Present

- Facilitate and deliver lectures for undergraduate Computer Science courses. Primary courses taught include:
 - Introduction to Computer Programming (taught using C++)
 - Introduction to Data Analysis with Python & Pandas
 - Data Visualization using Tableau
 - Computer Networks (Focus on App-Layer Protocols and overview of TCP/IP Reference Stack)
 - Linux Scripting and Administration.
 - Computer Systems Integration Course
- Serve on departmental committees.
- Maintain PHP web applications written for the CS&IT Department.

Kutztown University of PA

Graduate Assistant

Kutztown, PA

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

Data Reporting Internship

Allentown, PA

05/2018 - 08/2018

- Developed Python application that confirmed data linkage between two datasets.
- Created Python Selenium script to automate downloading of CSV files from web app.

SKILLS

Technical

- **Programming Languages** - Python, C++
- **Databases** - SQL, Database Management, and Creation
- **Computer Networking** - TCP/IP Reference Model, App-Layer Portocols, Routing
- **Linux System Administration** - BASH Scripting, Management, Software Installations

General

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EDUCATION

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

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, grant is focused 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.

Senior Seminar Project

- Class-wide project