

Patrick Earl

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Allentown, PA

EXPERIENCE

Kutztown University of PA

Kutztown, PA

Instructor

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 (Mainly an overview of protocols such as HTTP, DNS, DHCP, ICMP, IP, etc.)
 - Linux Scripting and Administration.
- Serve on departmental committees.
- Maintained various departmentally developed web applications.

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

- 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, Protocols: HTTP, DNS, FTP
- **Linux System Administration** - BASH Scripting, Management, Software Installations

General

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EDUCATION

Kutztown University

Data Analytics Graduate Certificate

Dec. 2020

Kutztown University

Master of Science (Computer Science)

May 2019

Kutztown University

Bachelor of Science (Computer Science)

May 2018

PROJECTS

- Worked with University IT to setup a self-hosted Gitlab instance.
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