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 (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 — 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, 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
- Worked with University IT department to setup a self-hosted GitLab instance. Server will be used in future courses and to host student/faculty projects.
- Helped craft grant proposal for NSF *CS4All* grant which was accepted early 2021. Will serve as a consultant on the team.

Senior Seminar Project — Class-wide project aiming to create a web application to