Patrick Earl

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Pittsburgh, PA
Active Security Clearence

EXPERIENCE

Carnegie Mellon University/Software Engineering Institute Pittsburgh, PA
DevOps Engineer *05/2022 - Present*

- Helping DoD customers transition to using more modern DevSecOps practices through use of containerization, cloud environments, etc.
- Actively contributed on multiple projects using languages such as Go, Python, and Rust.
- Helping maintain an Azure hosted Kubernetes cluster hosting Platform1's BigBang deployment.
- Has helped write Gitlab CI/CD Pipelines and Dockerfiles to containerize applications.
- Helping manage cloud environments in Azure and AWS using cli tools and Terraform.

Kutztown University of PA Kutztown, PA
Instructor *08/2019 - 05/2022*

- Facilitated and delivered lectures for undergraduate computer science courses. Primary topics taught included introductory C++ and Python Programming courses, Data Analysis using Pandas, Data Visualization, Computer Networks, and Linux for System Administrators
- Served on departmental and university-wide committees.

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.

SKILLS

Technical

- **Programming Languages** - Golang, Python, Rust, C++
- **Computer Networking** - DNS, HTTP, Routing, TCP/IP Reference Model
- **System Administration** - BASH Scripting, Management, Software Installations
- **DevOps Technologies** - Kubernetes, Container Building, CI/CD Pipelines
- **Cloud Operations** - Azure & AWS CLIs, Terraform, Ansbile

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

PUBLICATIONS

Kutztown University

- Patrick Earl, Lisa Frye, and Dale Parson. *Assessing a Scholarship Program for Underrepresented Students in Computer Science and Information Technology.* The 35th Annual Conference of the Pennsylvania Computer And Information Science Educators (PACISE '20). April 2020, West Chester, PA.