

Collin Kenneth Kleest

Collegeville, PA | State College, PA | (484) 854-9485 | collinkleest@gmail.com | ckk5255@psu.edu |
https://linkedin.com/in/collinkleest | https://github.com/collinkleest | https://collinkleest.com

EDUCATION

The Pennsylvania State University, University Park, PA
College of Information Sciences and Technology
Schreyer Honors College

June 2018 – December 2021

- **Bachelor Science in Information Science and Technology, Design and Development Option**
 - **Minor:** Security & Risk Analysis
 - **Overall GPA:** 3.87 | **Major GPA:** 4.0

Honors Work

- Java Generics Application, and multiple sorting implementations for *Dr. Fredrick Fonseca*
- Socks Proxy Lab creation for Professor *David Hozza, CISSP*
- Web Component Development with Professor *Bryan Olyendyke*
- Thesis Research (In Progress) with *Marc Friedenber J.D. M.S.*

Dean's List: FA18, SP19, FA19

Scholarships: Richard C. Assetto, Robert and Tammy Morgan Trustee, and Hendrickson Family Trustee Scholarship

Major Related Course Work: Python Algorithms, Databases & SQL, Networking, Leadership in Technology, Java Object Oriented Programming, Information Security, Discrete Mathematics, Object Oriented Design

WORK EXPERIENCE

Rajant Corporation, Systems Engineer Intern

May 2019 – August 2019

Rajant is a defense contractor that produces networking technology that enables secure, real-time communication.

- Established an API Gateway to provide centralized authentication for API's and 115 employees.
- Engineered a power monitoring system, that utilizes Python on a Raspberry Pi.
- Analyzed a corporate network of 10-15 servers, two VPN connections, and multiple Virtual LAN's.

College of Information Science & Technology

Learning Assistant Coordinator for Intermediate Java Courses

January 2020 – Present

- Managing ten learning assistants, facilitating communications to tutors, and conducting interviews.

Java Learning Assistant

January 2020 – Present

- Teaching fundamental Java object oriented concepts, assisting instructor with lectures, grading, and course materials. Class with *Professor Shawn Smith*, Penn States Director of Software Engineering

Instruction Assistant, Lead Teaching Assistant

January 2019 – May 2020

- Managing two new learning assistants and creating new course content for *Dr. Edward Glantz*.
-

LEADERSHIP

President and Co-Founder of Emerging Technology Club

September 2019 – Present

EMTech is a club that presents demos based on the Raspberry Pi and teaches students about emerging technologies.

- Creating advanced Linux labs, collaborating with an executive team to organize and plan meetings.
 - Developing engaging labs that connect hardware and software together with a Raspberry Pi
-

VOLUNTEER WORK

CB Transportation

July 2019 - Present

- Aided in configuring Alien Vault defensive security system for detecting security vulnerabilities.

Penn State Ski Team,

Sept 2018 – Present

- Fundraised for THON and team funding. College club level competitions five times a year.
-

PROJECTS

Linux Web & File Server

Kong API Gateway (Kong, Konga, Postgres SQL)

Personal Portfolio (HTML, CSS, JS, Bootstrap, Sass, Web Components)

Raspberry Pi Power Monitor (Python)

Github CLI Automation Program (Python)

SKILLS AND TOOLS

Hard Skills:

- **Languages:** Python (Advanced), Java (Intermediate), HTML/CSS/JavaScript (Intermediate), SASS (Intermediate), SQL(Novice), Shell Script(Novice)
- **Operating Systems:** Fedora (RedHat), Ubuntu & Raspbian(Debian), Windows 7/8/10, Mac OS
- **Tools:** Docker, Git (Github & Gitlabs), Kubernetes, Virtual Box, MongoDB, Postman, Various IDE's; VS Code, Netbeans, Vim
- **Concepts:** MVC Java Development, Data Structures & Algorithms, Information Security, OOP Design

Soft Skills:

- Leadership, Communication, Time Management, Adaptability, Teamwork, Decision Making, Persistence

Certifications: Certified Wireless Analyst (CWA), Certified IP Telecom Network Specialist

Collin Kenneth Kleest

Collegeville, PA | State College, PA | (484) 854-9485 | collinkleest@gmail.com | ckk5255@psu.edu |
<https://linkedin.com/in/collinkleest> | <https://github.com/collinkleest> | <https://collinkleest.dynu.net>

Projects

Linux Home Server

Fedora Server, NGINX Web Server, OwnCloud File Storage

- Utilized Red Hat's Operating System, specifically Fedora 30 Server Edition
- Assembled a PC from scratch
- Configuration of FirewallD to allow and block specific traffic
- Deployed NGINX Web Server to host my own website.
 - Site Written in HTML/JavaScript/CSS
- Utilized Let's Encrypt SSL, to configure HTTPS.
- Configured a dynamic IP address tracker to avoid ISP's changing my IP address
- Installed and configured PHP and MySQL for OwnCloud server
- <https://github.com/collinkleest/Multi-Use-Home-Server-Project>

Kong API Gateway

Open Source API Gateway built on top of NGINX and written in Lua, used to authenticate users with APIs

- Researched a powerful open source solution.
- Evaluated microservices and web services to put behind the API gateway.
- Examined compatibility with servers and APIs
- Modified python and bash scripts, to allow requests to go through the API gateway.
- Documented installation of API gateway on CentOS, Fedora, & Docker.
- Formulated bash scripts to automatically install the gateway.
- Developed python program to automatically add users.
- Simulated testing environment with docker containers.
- <https://github.com/collinkleest/Kong-API-Gateway>

Personal Portfolio Website

My own personal portfolio, built from scratch with HTML/CSS/JS, Sass, Bootstrap and Web Components.

- Learned HTML, CSS and JavaScript, Bootstrap and Sass to build an accessible, elegant portfolio
 - Site is mobile compatible, meaning the site is responsive when going from desktop to tablet to a mobile phone.
- Site is completely based around static content, includes multiple pages; home, about, projects, resume, and a contact page.
- Hosted at: <https://collinkleest.com>
- Source code on Github: <https://github.com/collinkleest/portfolio>

Raspberry Pi Power Monitor

Python scripts running on a Raspberry Pi that detect power outages and send SMS messages.

- Collaborated with an intern to figure out the specific requirements for the power monitor
 - Planned and discussed how scripts would call each other and how implementation would be executed
- Developed python program utilizing email to SMS gateways
 - Python script sends out a text message notification when the power goes out and when it is turned back on
- Utilized Python multithreading to check multiple GPIO pin states at once
- Aided in development of a program that checks for water level detection
- <https://github.com/collinkleest/Raspberry-Pi-Power-Monitor>

Github Command Line Automation Tool

Command line tool written in Python to automate Git commands, and Github requests.

- Tool utilizes the Github API to make HTTP requests to gather information or manipulate account information, create repositories and delete repositories.