

# HARI PRANAV ARUN KUMAR

814-321-3394 | [hpa5211@psu.edu](mailto:hpa5211@psu.edu) | LinkedIn: <https://bit.ly/hari998> | Portfolio: <https://akhp.dev>

## EDUCATION

### The Pennsylvania State University

Master of Sciences - Computer and Information Systems Security

State College, PA

Graduation Date: May 2024

- GPA: 3.89
- Coursework: Network security | Web Application Security | Foundations of Software Security.

### CMRIT

Bachelor of Engineering - Information Science

Bangalore India

Aug. 2017 - Aug. 2021

- GPA: 3.5
- Coursework: Cryptography | Network Security | Data Structures | Design and Analysis of Algorithms.

## SKILLS

**Management:** Cloud Security, Product Security, Application Security, Threat and Vulnerability Management, SOC2 Compliance.

**Technologies:** Penetration Testing, SIEM, OWASP Methodology, Data Privacy, Secure Development Lifecycle, IAM, TCP/IP, VPN, CI/CD, Python, Go, SQL, HTML, JavaScript, Flask, Flutter, Git, Web Application Firewall, Terraform, Kibana, Elastic Search, Linux, Windows, Mac.

**Tools:** Microsoft Suite, Apache Superset, Docker, AWS Code Pipeline, AWS Security Hub, AWS Guard Duty, Elastic Kubernetes Service.

## RELEVANT EXPERIENCE

### Lutron Electronics

Product Security Engineer Intern

Philadelphia, PA

Jun. 2023 - Aug. 2023

- Implemented Infrastructure as Code on AWS and Azure reducing risk by **25%** on various services.
- Architecture and implementation of tools like **Prowler** and **Security Hub** on multi-cloud deployments improving compliance by **75%**.
- Improved security visibility by **35%** by scoring and ranking vulnerabilities on hardware modules, firmware, and cloud deployments.
- Implemented security best practices to comply with **SOC2**, **NIST** and other cybersecurity standards.

### The Pennsylvania State University

Teaching Assistant – Cyber Forensics

State College, PA

Aug. 2022 - Present

- Developed labs on AWS and Azure, assisted students with courses in cyber forensics and security.
- Mentored students in groups and individually to improve the class grade by **15%**.

### Ernst & Young LLP

Senior Analyst - Cloud Security

Bangalore, India

Aug. 2021 - Aug. 2022

- Evaluation of CIS framework and CAIQ controls for the client which increased compliance by **30%**.
- Configured **IAM security policies** with the least privilege for AWS cloud to access various services on data lake.
- Integrated cloud security logs with Securonix **SIEM** for management and assessment of threats and ticketing.
- Implemented **DevSecOps** pipeline for Apache Superset on Elastic Kubernetes for improving dynamic scalability for **3600 users**.

### Gautam Buddha Nagar Police

Intern - Security Analyst

Bangalore, India

Sep. 2020 - Nov. 2020

- Analysis and reporting of vulnerabilities in government websites, reducing overall risk by **30%**.
- Developed rules and Standard Operating Procedures for firewalls, improving detection and protection capabilities.

## LEADERSHIP EXPERIENCE

### Team Lead: Design and Development of DevOps Pipeline <https://bit.ly/hari1998>

Mar. 2022 - Jul. 2022

- Managed a team of 5 developers and deployed a Flask application using Infrastructure as Code, reducing time to production by **50%**.
- Used serverless compute to increase the efficiency and configured centralized repository management for the project.

### Tech Lead: Framework for Auditing PII Data <https://bit.ly/hari198>

Apr. 2022 - Jul. 2022

- Designed and deployed a framework which can help prevent exposure of Personally Identifiable data on the cloud.
- This framework reduced the serverless cost by **30%** and was open sourced.

### Tech Lead: Cloud Agnostic Security Operations Center

Jul. 2021 - Nov. 2021

- Developed a cloud agnostic containerized solution for threat detection and modeling using Suricata Intrusion Detection System reducing cloud security services cost by **20%**.
- Integrated tools like Elasticsearch, Logstash, Kibana for log ingestion, visualization and alerts which have been open sourced.

## AWARDS

### Microsoft Hackathon (Second Place): <https://bit.ly/hari09>

Feb. 2020

- Led a team of 3 hackers and built an application to reduce corruption in public projects using BigchainDB and Azure.

### Dora Global Hackathon (First Place): <https://bit.ly/harp98>

Oct. 2018

- Led a team of 4 hackers and built an application which can track crop health and aid in insurance claims for farmers using Flutter.

### Hedera Hackathon (Third Place)

Oct. 2018

- Led a team of 6 hackers and developed an application which incentivizes citizens reporting issues plaguing society via a charter fund.