HARI PRANAV ARUN KUMAR

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EDUCATION

The Pennsylvania State University   **State College, PA**
Master of Sciences - Computer and Information Systems Security   *Graduation Date: May 2024*
● GPA: **N/A**
● Graduate Coursework: Network security | Web Application Security | Foundations of Software Security.

CMRIT   **Bangalore India**
Bachelor of Engineering - Information Science   *Aug. 2017 - Aug. 2021*
● GPA: **3.5/4**
● Coursework: Cryptography | Network Security | Data Structures | Design and Analysis of Algorithms.

RELEVANT EXPERIENCE

The Pennsylvania State University   **State College, PA**
Teaching Assistant - Cybersecurity Analytics and Incident Response   *Aug. 2022 - Present*
● Developed teaching material and assisted students with learning concepts in security and analytics.
● Mentored students in groups and individually to improve the class grade by **15%**.

Ernst & Young LLP   **Bangalore, India**
Senior Analyst - Cloud Security   *Aug. 2021 - Aug. 2022*
● Evaluation of NIST framework and CAIQ controls for the client which increased compliance by **30%**.
● Integrated cloud security logs with Securonix SIEM for management and assessment of threats and ticketing.
● Implemented custom DevSecOps pipeline for Apache Superset on Elastic Kubernetes Service improving dynamic scalability and application security for **3600 users**.

Gautam Buddha Nagar Police   **Bangalore, India**
Intern - Security Analyst   *Sep. 2020 - Nov. 2020*
● Analysis and reporting of vulnerabilities in government websites, reducing overall risk.
● Developed rules and Standard Operating Procedures for firewalls, improving detection and protection capabilities.
● Investigated and resolved tickets submitted by users and improved performance of existing website.

SKILLS

● **Languages, Frameworks:** Python, Go, SQL, Docker, Elastic Kubernetes Service, JavaScript, HTML Flask, Flutter.
● **OS and Tools:** Linux, Windows, Mac, GitHub, Security Hub, AWS Code Pipeline, Apache Superset, Apache Airflow, Git.

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

RESEARCH

● Blockchain As a Service (BaaS) Framework for Government Funded Projects https://bit.ly/harp980
● IoT and Machine Learning based Peer to Peer Platform for Crop Growth Monitoring https://bit.ly/harip98