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EDUCATION

Pennsylvania, PA	Penn State University	Aug. 2022 - Present
<ul style="list-style-type: none">• M.S. in Computer and Information Systems Security. GPA: N/A• Graduate Coursework: Network security Web Application Security Foundations of Software Security• Undergraduate in Information Science & Engineering (CMRIT India). GPA: 3.49/4• Coursework: Cryptography Network Security Data Structures Design of Algorithms Software Engineering		

EMPLOYMENT

Analyst, Cloud Security	Ernst & Young LLP	Aug. 2021 - Aug. 2022
<ul style="list-style-type: none">• Performed Risk assessment, including threat modeling, which improved overall security posture for the client.• Integrated cloud security logs with Securonix SIEM for management and assessment of threats and ticketing.• Evaluation of NIST framework and CIS controls resulting in compliance for Big Data Security.• Implemented custom DevSecOps pipeline for Apache Superset on Elastic Kubernetes Service improving dynamic scalability and application security for 3600 users.		
Security Analyst, Intern	Gautam Buddha Nagar Police	Sep. 2020 - Nov. 2020
<ul style="list-style-type: none">• Analysis and reporting of vulnerabilities in government websites reducing overall risk.• Developed rules and SOP's for firewalls improving detection and protection capabilities.• Investigated and resolved tickets submitted by users and improved performance of the website.		

TECHNICAL EXPERIENCE

Projects

- **Cloud Agnostic Security Operations Center:** Developed a Cloud Agnostic containerized solution for threat detection and modeling using Suricata Intrusion Detection System reducing cost by 60%.
- Integrated tools like Elasticsearch, Logstash, Kibana for log ingestion, visualization and alerts which have been open sourced.
- **Framework for Identification of Personally Identification Information:** A framework which can help detect and prevent exposure of PII data on the cloud. This framework reduced the serverless cost by 40%.
- Capabilities include editable data frames with connectors to AWS and SQL and a front end for easy manipulation and encryption of data.
- **DevOps Pipeline:** Deployed Flask application using Infrastructure as Code reducing time to production by 50%.

RESEARCH

- [Blockchain As a Service \(BaaS\) Framework for Government Funded Projects](#)
- This paper proposes a solution using Blockchain as a Service for easy and transparent administration of public projects which allows various stakeholders to scrutinize the entire process.
- [IoT and Machine Learning based Peer to Peer Platform for Crop Growth Monitoring](#)
- This paper proposes a decentralized platform for buying and selling of agricultural produce, by connecting farmers with individuals interested in investing in their fields with the continuous monitoring of health and real time analytics.

LANGUAGES TECHNOLOGIES AND AWARDS

- Languages, Frameworks: Python, Docker, Elastic Kubernetes Service, Dart, Javascript, Flask, Flutter.
- OS and Tools: Linux, Windows, Mac, Github, Security Hub, Quicksight, Apache Superset, Apache Airflow.
- Awards: Microsoft Hack 2020 (Second Place), Dora Hacks 2019 (First Place), Hedera Hacks 2019 (Third Place).