BASANTA CHAULAGAIN

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EXPERIENCE

Graduate Research Assistant ***University of Georgia****, Athens, Georgia* (Aug 2021 - Present)
- Area of research: Digital Forensics; a member of Institute of Cybersecurity and Privacy (ICSP).
- Working in the design, implementation, and evaluation (attack simulation) of a novel technique that allows forensically analyzing audit logs stored in cloud in the encrypted form.

Security Analytics Engineer ***LogPoint****, Kathmandu, Nepal* (Oct 2020 – July 2021)
- Developed applications to extract information from different logs sources (OS, Firewall, IDS, AD, servers, network devices) and built Knowledge Base components (dashboards, alert rules, reports) around it.

Presales Engineer ***LogPoint****, Kathmandu, Nepal* (Oct 2018 – Oct 2020)
- Conducted proof of concept to demonstrate the relevance of our product with customer's security requirement.
- Evaluated customer's network infrastructure and designed the solution deployment architecture.
- Suggested various use cases to their SOC team and performed operation monitoring on the deployed system.
- Conducted certified user and administrator training to the customers and partners of LogPoint.

Lecturer ***Cosmos College of Management and Technology,*** *Lalitpur, Nepal* (May 2019 – Apr 2020)
- Delivered lectures on programming courses like C and C++, prepared laboratory materials for the courses.
- Periodically evaluated student's performance via assessments, assignments, and practical lab exercises.

Software Engineering Intern ***Sorus Nepal****, Lalitpur, Nepal* (Jun 2018 – Aug 2018)
- Involved in writing middleware, creating custom validators, and handling exceptions (Python-Django).

EDUCATION

University of Georgia ***PhD in Computer Science*** Aug 2021 – Present (GPA: 4.0)
Research: Forensically Analyzable Symmetric Encryption for Audit Logs. Presented poster in ICSP research day.

Tribhuvan University ***Bachelor's in Computer Engineering*** Nov 2014 – Sep 2018 (Score: 79.16%)
Major Project: Casualty Information Extraction and Analysis from News. Published in 16th ISCRAM Conference.

PROJECTS

- **Smart Home Security** – A simulation of home air conditioning system in AWS to demonstrate trigger-action.
- **Casualty Information Extraction and Analysis from News -** A real time software to extract and visualize information from road accident-related news from an online news portal.
- **Plant Leaf Recognizer** – A software that can identify ten different species of plant by scanning their leaves.

AWARDS AND HONORS

- Member, Artifact Evaluation Committee, ACSAC 2022.
- Winner, LOCUS Hack-A-Week, 2017.
- Finalist, Ncell App Camp, 2015.
- **Certification**: Unlocking Information Security, Tel Aviv University, EdX, 2021.

ACTIVITIES

- Secretary, Nepalese Students Association @UGA, 2022
- Media Coordinator, LOCUS National Tech Festival, 2018
- Organizer, Hult Prize @ IOE Pulchowk, 2018
- Organizer, Children in Technology, 2017

SKILLS

- **Languages** Python (5+ years), C/C++ (3+ years), Shell (3+ years). **Frameworks**: Django, Flask.
- **Libraries** Numpy, Scikit-learn, Pandas, Scapy, NLTK, Tensorflow, Beautifulsoup, Cryptography, Socket.
- **Tools** Linux, Git, Docker, SQL, MongoDB, AWS, Qualys.
- **Others** SIEM, regex, MITRE ATT&CK, threat hunting, REST API.