

Prabin Lamichhane

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 Athens, GA

SUMMARY

CS PhD student with research focus in **systems and software security**. Strong professional foundation in software engineering with proven adaptability across diverse roles. Experienced in identifying and mitigating issues and vulnerabilities in systems and software, with technical proficiency in Python, JavaScript, C, Linux, and cloud. Skilled in utilizing cybersecurity tools like SIEM and EDR for proactive threat detection and architectural security. Seeking to solidify research direction by solving complex security challenges through research.

EDUCATION

University of Georgia Ph.D. in Computer Science; Current GPA: 4.00	Jan 2025 - Dec 2029 (Expected)
Institute of Engineering, Pulchowk Campus, Tribhuvan University Bachelor of Computer Engineering	Nov 2017 - Mar 2022

RESEARCH INTERESTS

Software Security, Cybersecurity and Privacy

PROFESSIONAL EXPERIENCE

Graduate Research Assistant <i>University of Georgia</i> - Researched on the security of the OCPP 2.0 communication protocol. - Developed a cloud-based malware sandbox system, based on CAPEv2, for networked applications. - Analyzed multi-layer vulnerabilities in hybrid cloud-quantum infrastructures to define logging requirements for security remediation.	Jan 2025 - Present
Software Engineer <i>Gemstone Lights</i> Contributed to a firmware stack for ESP32 microcontrollers, written in C and Python, to manage a networked IOT home lighting system.	June 2024 - Dec 2024
Solutions Engineer <i>LogPoint</i> - Performed root cause analysis of security vulnerabilities in Python, Java, and C codebases of a large-scale data processing system; developed and deployed critical hotfixes. - Administered Linux server environments, diagnosing and resolving performance, memory, security, and application-layer issues. - Researched emerging security threats and addressed them by leveraging LogPoint SIEM, SOAR, UEBA, and EDR tools. - Architected a real-time monitoring system using Grafana and Prometheus for LogPoint SaaS servers, reducing incident response time by 80%. - Deployed deep learning models for proactive anomaly detection in critical time-series metrics. - Spearheaded the transition to Infrastructure as Code (IaC), utilizing Terraform and Pulumi for automated infrastructure provisioning and configuration management of internal tools.	Feb 2022 – June 2024
DevOps Engineer <i>Proxmed Pty Ltd. - Part time</i> Developed a reliable AWS infrastructure for the XNAT imaging platform using Terraform. Leveraged various AWS services for system security and reliability.	Feb 2023 – May 2023
Software Engineer <i>Techniti, Nepal - Part time</i> Developed Web Applications and Data management systems, most implemented using Python, JavaScript, and relevant frameworks.	Aug 2020 – Aug 2021

- Automated software testing and deployment with containerization and CI/CD pipelines.
- Led the development of a content management and data visualization system as the project lead, managing separate backend, frontend, and mobile app development teams.

RESEARCH PUBLICATION

- Dhakal, M., Chhetri, A., Gupta, A. K., **Lamichhane, P.**, Pandey, S., & Shakya, S. (2022, July). Automatic speech recognition for the Nepali language using CNN, bidirectional LSTM and ResNet. In 2022 International Conference on Inventive Computation Technologies (ICICT) (pp. 515-521). IEEE.

SKILLS

Programming Languages: Python, JavaScript, C, C++, Bash

Tools: Docker, SQL/NoSQL, SIEM, SOAR, EDR

Platforms: Linux, AWS

ACHIEVEMENTS AND AWARDS

- Full Merit-based Scholarship for Undergraduate Studies
- Winner of Capture the Flag Cybersecurity Competition in on-campus tech exhibition (LOCUS)
- Finalist at Hack-A-Week hackathon in on-campus tech exhibition (LOCUS)
- Certified in Cybersecurity - ISC2 – 2024

VOLUNTEERING EXPERIENCES

Nepalese Student Association, UGA – 2025

Member

Datarush, AI and Data Science Competition – LOCUS 2022

Event Organizer

Covid Care Nepal – 2020

Platform Developer

REFERENCES

Dr. Kyu Hyung Lee

Associate Professor and Director of Graduate Studies, School of Computing

Associate Director, Institute of Cyber Security and Privacy (ICSP)

University of Georgia

✉ kyuhlee@cs.uga.edu

Bibek Shrestha

Associate Engineering Manager

Logpoint

✉ bsr@logpoint.com