

BASANTA CHAULAGAIN
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RESEARCH INTEREST

Primarily interested in cyber security and data analytics.

EDUCATION

Tribhuvan University, IOE, Pulchowk Campus (acceptance rate < 4%) Nov 2014 - Sept 2018
Bachelor of Engineering, Computer Engineering
Average Score: 79.16%

Coursework: Computer Networks and Security, Theory of computation, Data Structures and algorithms, Software Engineering, Data Mining, Database, Operating System, Artificial Intelligence, Distributed Systems, Computer Graphics, Discrete Mathematics, Advanced Calculus, Linear Algebra.

WORK EXPERIENCE

LogPoint Oct 2018 - Present

Security Analytics Engineer

- Analyzed logs from different sources and prepared the use cases out of them.
- Created alert rules that maps the events with MITRE framework.
- Developed applications that extract information from different raw logs using regex patterns.

Presales Engineer

- Evaluated customer's network infrastructure and designed the solution deployment architecture.
- Suggested the use cases to the customer's SOC team to monitor the security of their organization.
- Developed programs to automate the process of operation monitoring.
- Allocated resources to different services in the logpoint system (linux-based) for optimal performance.

Sorus Nepal Jun 2018 – Aug 2018

Software Engineering Intern

- Involved in writing middleware, creating custom validators and exception handlings (Python-Django).

Univhub Nepal Sep 2017 – Jan 2018

Backend Developer

- Involved in designing and implementing database for the solution.
- Created REST APIs in Python to help communicate from the UI.

TEACHING EXPERIENCE

Cosmos College of Management and Technology May 2019 - Present

Lecturer

- Delivered lectures to engineering students on programming courses like C and C++.
- Prepared laboratory materials and conducted practical labs for programming.
- Periodically evaluated student's performance via assessments and assignments.

PUBLICATIONS

- **B. Chaulagain**, A. Shakya, B. Bhatt, D. K. P. Newar, S. P. Panday and R. K. Pandey, "Casualty Information Extraction and Analysis from News," *16th ISCRAM (International Community on Information Systems for Crisis Response and Management) Conference*, 2019, pp.1002-1011. http://idl.iscram.org/files/basantachaulagain/2019/1923_BasantaChaulagain_etal2019.pdf

AWARDS AND ACHIEVEMENTS

- Winner, LOCUS Hack-A-Week, 2017
- Finalist, Ncell App Camp, 2015
- Edx Certified, Unlocking Information Security, Tel Aviv University

PROJECTS

Casualty Information Extraction and Analysis from News

- Developed a real time software to extract and visualize information from road accident related news from an online news portal.
- Extracted information using techniques like Named Entity Recognition, Semantic Role Labeling and Regular Expression.

Plant Leaf Recognizer

- Developed a software that can identify ten different species of plant by scanning their leaves using Convolutional Neural Network (CNN) for object detection.

Scan Akshar

- Developed a software to recognize character for Nepali printed text using CNN model.
- Prepared training data by transforming the shape of characters from collected Devanagari fonts.

Restaurant Management System

- Developed a web app that can completely automate the processes in small restaurants like ordering food, generating bills, keeping inventory records, recording financial transactions, and printing the invoice.

E-voting System

- Created a web app to facilitate the student union's election in college with the features to register voters and candidates, verify voter's identity at the time of election, cast vote to the candidates and display the election result after the election.

EXTRA-CURRICULAR

- Organizer, Hult Prize @ IOE Pulchowk
- Media Coordinator, LOCUS National Technological Festival
- Member, AIESEC in Kathmandu
- Organizer, Children in Technology
- Technical Volunteer, Help Nepal Network (HeNN)

REFERENCES

Available on request