

Sachin Pokharel

PERSONAL INFORMATION

Name: Sachin Pokharel
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PROFILE

A motivated computer science student seeking for new opportunities where I can utilize and contribute my problem solving and technical skills to the growth of the organization and further develop my abilities in the field of computer science. Passionate about web development, artificial intelligence, network securities and cloud technologies.

PROFESSIONAL EXPERIENCE

- 08/2017 – 07/2018 **Assistant Web Developer**
Code Sastra Pvt. Ltd, Pokhara, Nepal
Responsible for managing various stages of Web Development
- Gather and refine specifications & requirements based on technical needs.
 - Create, edit, manage and maintain CMS-based web sites.
 - Code modifications using HTML5; CSS3; JavaScript; PHP.

EDUCATION

- 2019 – Present **Master in Computer Science**
Blekinge Institute of Technology, Karlskrona, Sweden
- Relevant Courses: Artificial Intelligence, Cloud Computing, Programming in UNIX, Research Methodologies, Decision Support Systems, Performance Optimization, Simulation, Mathematical Statistics, Machine Learning
- 2013 – 2017 **Bachelor of Technology in Information Technology (B.Tech IT)**
Indian Institute of Information Technology, Allahabad, India
- Relevant Courses: Object-Oriented Methodologies, Data Structures, Database Management Systems, Software Engineering, Operating Systems.

ACADEMIC PROJECTS

Apr – Jun 2020

DSS for recommending smart devices using prediction algorithm

Mentor: Lawrence Hennessey

- Collected the data set required for making the decision and transformed the data as an information and knowledge.
- Selected the decision criteria and assigned the decision criteria according to user's priorities.
- Computed the scores according to the priority of the user using a decision matrix and displayed the result.
- Implemented with Python including python libraries which are NumPy, Pandas, Scikit-learn

Nov – Jan 2020

Implementation and Deployment of a Scalable Cloud Application using Amazon AWS

Mentor: Emiliano Casalicchio

- Created a web application using PHP Laravel with Apache Server.
- Deployed the web application in Amazon AWS for scalability using Auto Scaling, availability and monitor performance using Amazon Resources.
- Tested the web application under various load stress for scalability using stress-ng, Apache JMeter.

Feb – May 2017

Detecting XSS Vulnerabilities using Penetration Testing

Mentor: Dr. S. Venkatesan

- Performed penetration testing in web application by fetching the fields and user inputs using BeautifulSoup & Mechanize (Python Libraries) for parsing the web application.
- Tested the forms with different payloads and recorded the responses.
- Performed penetration testing using OWASP ZAP tool.
- Compared the result between OWASP ZAP tool & Python Libraries.

SKILLS & INTERESTS

- Languages Skills: Nepali (Mother Tongue); Fluent in English; Beginner in Swedish.
- Technical Skills: Python, Java; PHP; HTML5/CSS3/Bootstrap; Python (Django Framework); JavaScript/JQuery; MYSQL; Shell Scripting; Amazon Web Services (AWS); Docker; Familiar with tools like Wireshark, OWASP ZAP, Burp Suite, SQLMAP, MATLAB, Metasploit;
- Interests: Reading articles on new technologies; Playing Football; Traveling; Playing Guitar.