

Suman Astani

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SUMMARY

An experienced web developer with strong knowledge of various frontend and backend technologies. A level head for problem-solving combined with a passion for innovative and fresh ideas. Background in accounting applications and knowledge of system architecture and design patterns involved in it. Always eager to explore new tech stacks. Seeking a challenging junior software developer role.

EDUCATION

Bowling Green State University, Bowling Green, Ohio, US

Jan 2022 - Dec 2023

Master of Science in Computer Science, *Full Tuition Waiver Award, Teaching Assistant*

Amrit Science Campus, Thamel,

Bachelor of Science in Computer Science and Information Technology (BSC.CSIT)

First Government Science Campus of Nepal | Admission, and scholarship opportunity to top 60 entrance applicants only.

EXPERIENCE

Graduate Teaching Assistant and Research Assistant

Apr 2021 - Current

- Developed course materials and lectures for undergraduate students in the computer organization course.
- Grade Quizzes and assignments for a total of 90 students in two sections and mentor students during office hours.
- As an RA, researched Solar Coronal Loops visualization.

IT Lecture(part-time), NIIT, Jamal,

July 2019 - Jan 2020

- Developed curriculum and delivered training to undergraduate students.
- Primarily focusing on Python programming and the Django framework

Junior Software Developer, Divya Technology, Kathmandu, Nepal

Jan 2018 - Apr 2019

- Designed and Developed web-based Accounting software for a top auditing firm using Django Web Framework, Python, Javascript, and PostgreSQL.
- Working collaboratively with Business Analysts and Charter Accountants to understand the user requirements and accounting knowledge to write business logic codes to include features in software for Easy-Invoicing, Inventory Management, Reports, Billing financial accounting, and Dashboard.

PROJECTS

Chicago Crime Analysis: Analyzed crime statistics in Chicago using PySpark for data processing and Spark MLlib to apply different machine learning methods, including Random Forest and K-Nearest Neighbors to detect patterns and trends while evaluating algorithm performance with metrics like F1Score and accuracy.

Accment Accounting Software: Designed and developed web-based accounting software with approval from Inland Revenue Department (IRD) Nepal with features like Document Management, Bookkeeping, Inventory Management, Reports, Billing, Voucher approval system, and Sales Cycle features.

Loan Approval Prediction: Used different Machine Learning models and compared accuracy between them to predict whether applicants' loans should be approved or not from publicly available loan dataset from Kaggle.

SKILLS

Coding Languages: Java (Spring Boot), Python, SQL, PostgreSQL HTML/CSS, JavaScript, R Programming language,

Framework/Library: Django, React, Django Rest Framework for API Development, Matplotlib, Seaborn, Plotly, sci-kit-image

Data Analysis: PySpark, SparkML, Pandas, Apache Spark, Spring Boot for ETL, PowerBI for Data Visualization, Hadoop, Docker,

Others: AWS, Microservices, VCS(GIT), AWS, Project Deployment, Slack(Team Collaboration)

RELEVANT COURSEWORK

Design and Analysis of Algorithms | Python | Secure Software Engineering | DBMS | Computer Security | Data Mining | Big Data Analytics | Data Science Programming

ACTIVITIES AND AWARDS

Volunteer at International Student Orientation, Fall 2023(*BGSU International Program and Partnership*) [↗](#)

Ethical Leadership Certificate, 2022(*Bowling Green State University*)

Adult CPR/AED, 2022(*American Red Cross*) [↗](#)

Microsoft Student Partner, (*Activities: Hour of Code, Global Azure Bootcamp, Appathon*)

Planned and organized different events/workshops on campus as an MSP student ambassador

Member OSAC, *College open source community, Volunteer during National Science Day at Amrit Science Campus.*

Youth for Reconstruction Appathon, *Third Prize winner(Microsoft Innovation Center Nepal organized by UNDP)*

Cross-Cultural Connection Logo Contest BGSU, *Second Prize Winner*

Yomari Code Camp, *Certification of Appreciation for participating organized by Locus.*

Pitch Competition on ICT MEETUP, *Prize Winner, Theme: ACADEMIA-INDUSTRY COLLABORATION: UNDERSTANDING THE DIFFERENCE*

Art Collection, Interested in sketching and creating digital content in my free time. [↗](#)