SHAYAR SHRESTHA

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LinkedIn | GitHub | Stackoverflow

PROFESSIONAL SUMMARY

Data-driven software engineer with 5+ years of experience in designing, developing, and optimizing data systems. Proven expertise in using Python, .NET, and SQL to build scalable, high-performance solutions. Strong communicator and collaborator with experience in Agile environments and across cross functional teams.

TECHNICAL SKILLS

Programming Language: C#, Python
Databases: MSSQL, MySQL, PostgreSQL, Redis, MongoDB
Data/Visualization Tools & AI: Python libraries (pandas, numpy, matplotlib, tensarflow, keras), SQL
Cloud Tools/ Other Tools: Docker, Azure, AWS S3, Git, GitHub, GitHub Desktop, GitHub Co-pilot, Jenkins, RabbitMQ, FileMaker, MuleSoft
SDLC: Agile (Scrum)
API Testing: POSTMAN, SOAP UI
Documentation: Swagger, Confluence, Jira, Draw.io
Frameworks and Libraries: .NET Framework, .NET Core, Entity Framework, jQuery, PHP LUMEN, React and Node JS (for small apps)

CERTIFICATIONS

MS AZURE FUNDAMENTALS (AZ-900) Microsoft Certification - January 2023
FOUNDATIONAL C# WITH MICROSOFT FreeCodeCamp, Microsoft Certified – January 2024

EDUCATION

Hood College, Frederick, MD Graduation: May 2026
Master of Science, Computer Science (Data Science Focus)

Gannon University, Erie, PA January 2024 – May 2024
Master of Science in Computer and Information Science GPA: 4.0

Tribhuvan University, **Kathmandu, Nepal** November 2018
Bachelor of Science in Computer Science and Information Technology GPA: 3.56

SOFTWARE ENGINEERING AND IT EXPERIENCE

UBA Solutions, Nepal April 2020 – November 2023
Software Engineer (Offshore: Monotype Imaging, USA)

- Worked solely on building the service which could handle 100k data insertion to the system, which helped the business to make smooth acquisition process
- Implemented Redis caching, improving site performance by 30% and reducing database load
- Migrated legacy ASP.NET components to React, enhancing UI responsiveness and maintainability by 40%
- Delivered a 25% boost in data accuracy by developing .NET Core applications for inventory management
- Increased test coverage to 80% using automated JavaScript and Selenium tests, reducing production bugs by 15%
- Led post-release sanity tests, which verified changes, implemented caching strategies for specific pages, and enhanced release cycles by 20%
- Worked in a team of more than 50 individuals from 3 different countries to meet the financial goals

Century Commercial Bank Ltd., Nepal October 2019 – March 2020
Junior IT Assistant

- Utilized SQL and Python scripts to automate customer communication, reducing delays by 35%
- Supported the Core Banking System, maintaining 99% uptime and improving data driven reporting accuracy by 15%

Sursa Technology, Nepal August 2018 – October 2019
Associate Software Engineer

- Participated in architecture design discussions that improved system scalability and reduced downtime by 10%
- Designed and implemented a scalable RESTful API for user management in .NET Core
- Enhanced testing efficiency with xUnit for TDD, increasing code reliability and reducing downtime

VOLUNTEER EXPERIENCE

Flowspeak.io, Remote March 2022 – November 2023
Community Leader

- Provided constructive feedback, which improved platform functionality and user experience, resulting in a 20% increase in user retention
- Increased community engagement by 25% through the regular posting of relevant content and active communication with English learners

Data Experts (Coding Club, Hood College) September 2024 - Present
Chief On-Boarding Officer (Founding Member)

- Successful added members to the core team and added members to the club
- Contributing to the club in solving coding problem and training members to be a good market fit

PROJECTS

- **Dumps Selling Platform**: Built a full-stack web application for selling certification dumps using C#.NET, CQRS, PostgreSQL, and React JS, with features like product bundling and secure payment integration(via Stripe).
- **Iris and MNIST MLP Classifier**: Developed and trained multilayer perceptron models with TensorFlow for classifying Iris and MNIST datasets, achieving optimized accuracy through hyperparameter tuning.
- **CIFAR-10 CNN Classifier**: Designed a convolutional neural network using TensorFlow and Keras to classify CIFAR-10 images, leveraging regularization and data augmentation for improved accuracy.
- **Fine-Tuning GPT-2**: Fine-tuned GPT-2 on Bhagavad Gita domain data using Hugging Face Transformers, creating a generative model for context-aware philosophical query responses.