SHRIYANSH SAPKOTA

+44 (0)7402778317 | shriyanshsapkota207@gmail.com | www.linkedin.com/in/shriyansh-sapkota

PERSONAL STATEMENT

Resourceful and proactive software engineering professional with five years of experience, specializing in system optimization, automation, and troubleshooting within large-scale, distributed environments. Skilled in translating complex requirements into reliable technical solutions that enhance operational efficiency and fault tolerance. Known for a systematic problem-solving approach, strong organizational skills, and an ability to engage both technical and non-technical stakeholders effectively. Passionate about creating high-performing, scalable solutions and contributing to a collaborative and innovative work environment. Eager to contribute to a diverse and collaborative organisation, where intellectual curiosity and problem-solving are encouraged, and meaningful projects can make a large-scale impact.

WORK EXPERIENCE

BT Group
Oct 2019 – Oct 2024

Software Engineer Professional - BT Networks
Sep 2022 – Oct 2024

- Led end-to-end automation projects, integrating voice data from Microsoft Teams APIs and streaming through Kafka, culminating in a centralized Elasticsearch index for visualization on Kibana. This project automated and streamlined data processing and contributed to fault-tolerant, scalable data management solutions.
- Optimized an employee search algorithm for the Tech Bar, reducing wait times from one minute to two seconds, enhancing system responsiveness and user experience in a high-demand environment.
- Developed an energy tracking application, contributing to a 2% reduction in company-wide energy consumption by enabling real-time monitoring and automated alerts for high usage.
- Migrated a data hub from CDH to CDP in our data lake, with a focus on system resilience and scalability. This involved optimizing data storage structures and configuring Hadoop properties to support higher reliability and throughput.
- Automated routine processes by configuring Hadoop property files and creating Oozie workflows, increasing process efficiency and reducing manual intervention, consistent with organisational goal of eliminating operational work.
- Writing unit tests for Apache Spark Jobs.
- Created data catalogues & SharePoint documentations.

Project Management – BT Media & Broadcast
Mar 2022 – Sep 2022

- Co-managed the infrastructure setup for high-profile sporting events (e.g., Champions League Final) to ensure scalable, high-availability streaming solutions. These projects honed my skills in rapid problem-solving, system load management, and capacity planning to meet peak user demands.
- Led infrastructure set-ups for Scottish Premier League promotions, establishing robust, reliable systems under tight deadlines, underscoring my ability to troubleshoot and ensure uptime and performance for real-time streaming.
- Attended a three-day Agile Methodologies course, learning project management tools such as Kanban board, extreme programming, waterfall methodology, and Laissez-faire leadership.

Founder & Co-host of the Early Careers Podcast
Jan 2022 – Dec 2022

- Successfully pitched to senior management an Apprenticeship Podcast to address disinformation on early career schemes.
- Raised £10,000, planned episodes, organised filming dates and hosted the podcast series.

Software Engineer - BT Trading & Command
Sep 2019 – Mar 2022

- Developed a Python-based error-parsing application to monitor Trading Netrix data, allowing for early error detection and system reliability improvements across trading systems.
- Created a Java application enabling customization of trading turrets, enhancing user functionality while ensuring that performance and reliability standards were met, particularly under load-intensive conditions.
- Addressed real-time issues and closed bug tickets as part of DevOps initiatives, focusing on optimizing system uptime and service reliability through efficient code debugging and troubleshooting practices.

Nepisode
Mar 2020 - Jan 2023

Co-founder

- Founded a podcast at the start of the COVID-19 pandemic to raise awareness for Nepali culture.
- Planned, hosted, recorded, marketed and edited episodes leading to over 6000 monthly listeners.

Westminster Games Academy
Jan 2018 – Mar 2018

Internship

- Leading a team through a 3-month internship every Saturday to create a game in Java.

EDUCATION

Ravensbourne University
Jan 2020 – Jun 2023

BSc Digital & Technology Solutions (Degree Apprenticeship)

Degree classification: First-Class Honours (**88%**)
Key Modules: Network Fundamentals, Information Systems, Business & Mathematical Foundations, Software Fundamentals, Data & Security, Software Engineering end-to-end, Creative Collaboration, Information Systems Development, Advanced Software Engineering, Project Management, Dissertation, Final Major Project.

Kingsbury High School
A-Levels: Computer Science; Economics; Mathematics.

SKILLS & PERSONAL DEVELOPMENT

Technical Skills: Distributed Systems, Fault Tolerance, Scalability, Performance Monitoring, Logging Systems, Python, Java, Hadoop, Unix, MySQL, Testing & Debugging, Object-Oriented Design, API Integration, Continuous Integration/Continuous Deployment (CI/CD), Automation, Agile Methodologies, GIT Version Control, Project Management, Security, Code Review, Documentation, Problem Solving.

Professional Skills: Adaptability, Collaborative Problem-Solving, Fault Management, Effective Communication, Technical Documentation, Cross-Functional Collaboration, Attention to Detail, Resilience under Pressure.

Currently Studying: Google Cloud Platform Machine Learning Engineer Certification, with a focus on Google Cloud's infrastructure and scalability. Pursuing additional training in distributed systems and cloud infrastructure to deepen expertise in scalable, fault-tolerant architectures.

Courses:
- Aleto Leadership Program 2022
- McKensie Leadership Program 2024

AWARDS

Tech Industry Gold: Apprentice of the Year – Special Achievement	**Feb 2023**
Multicultural Apprenticeship Award: Highly Commended Judge's Choice Apprentice of the Year	**Oct 2023**
Elektra Awards: Bright Sparks Award	**Nov 2023**

VOLUNTEERING AND EXTRACURRICULARS

GetMyFirstJob, *Ambassador*	**Jun 2023 –**
Apprentice Nation, *Ambassador*	**Jun 2023 –**
TEDxLondon, *TeamX Member*	**Dec 2022 –**
Aleto Foundation, *Alumna, Ambassador, Organiser of Programmes*	**Jul 2022 –**
PathwayCTM, *Ambassador, Speaker & Mentor*	**Oct 2019 –**

INTERESTS

Jazz, Art, History, Football, Basketball, Tennis.