

Anushka Sandeepa

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SUMMARY

Data Engineer with a Master's degree in Data Science and hands-on experience designing automated data pipelines, analytics platforms, and cloud-based workflows. Proven ability to ingest, transform, and structure data from multiple sources, reducing manual processing by 80 percent. Strong background in Python, SQL, AWS, and production system design, with experience bridging software engineering and data engineering to deliver scalable, reliable data solutions.

EXPERIENCE

Data Analyst Intern

Alike^{WA} Inc. – Perth, WA | Jul 2025 – Oct 2025

- Designed and delivered an end-to-end analytics platform using **Python, Electron, and React**, automating evaluation reporting for workshops and events.
- Built automated **data ingestion and transformation pipelines** integrating **Microsoft Forms and Excel** into structured datasets, reducing manual processing by **80%**.
- Developed reusable **Python ETL workflows** to calculate confidence, satisfaction, and comparison metrics, ensuring **data quality, consistency, and repeatability**.
- Implemented automated report generation and exports in **PDF and Excel**, delivering stakeholder-ready outputs with improved turnaround time.

Software Engineer

Amerck Inc. – Kirulapone, Sri Lanka | Sep 2022 - Jan 2024

- Progressed from Trainee to Software Engineer based on strong technical performance and delivery quality.
- Developed and maintained backend and web applications using Java, Node.js, Express.js, and React, supporting data-driven business workflows.
- Built and enhanced backend services handling data ingestion, validation, transformation, and processing from application and API sources.
- Improved system reliability and data consistency by leading debugging and testing efforts, increasing legacy system stability by 40 percent and reducing support overhead.
- Deployed and managed cloud-hosted applications on AWS, supporting application scalability, availability, and environment configuration, and produced clear technical documentation for internal teams.

Trainee Software Engineer

Sierra Technology Holdings (Pvt) Ltd – Nugegoda, Sri Lanka | Feb 2020 - Aug 2020

- Developed patient EMR system and presented it to the NBQSA 2020 competition.
- Collaborated with senior personnel to troubleshoot and diagnose issues with equipment.
- Provided technical support for engineering staff during installation activities.
- Maintained detailed meeting notes and diligently managed product documentation.

EDUCATION

Master of Data Science

University of Western Australia - Perth, WA | Feb 2024 – Dec 2025

Bachelor of Science Engineering (Hons) in Computer Systems Engineering

NSBM Green University - Homagama, Sri Lanka | Mar 2018 - Dec 2022

Honors: 1st Class Honors (GPA – 3.85)

Diploma in Information & Communication Technology

ICBT Camps - Galle, Sri Lanka | Aug 2017 - Mar 2018

RECENT PROJECTS

- **Ocean Genome Explorer (UWA Capstone)**: Built a data driven platform integrating multi source marine biodiversity/genomics datasets for analysis and visual exploration.
- **Trading Chatbot (Grey Wolf Optimisation)**: Developed a Python based optimisation model to support short term strategy evaluation and performance testing.

AWARDS & CERTIFICATES

- Best Performance Award (2022) on BSc. Eng. (Hons) in Computer Systems Engineering at NSBM Green University, Sri Lanka.
- AWS Academy Graduate, completed [AWS Academy Cloud Foundations](#) course issued by Amazon Web Services Training and Certification in 2022.
- AWS Cloud Quest: Generative AI Practitioner, completed hands-on training in generative AI using Amazon Bedrock, SageMaker, Lambda and DynamoDB.

CO-CURRICULAR AND EXTRACURRICULAR

- President from 2020 to 2022 at the Association of Engineering at NSBM Green University, Sri Lanka.
- Director of Marketing & Promotions from 2019 to 2020 at the NSBM IEEE Student Branch, Sri Lanka.
- Club Coordinator of the Drama Club from 2018 to 2020 at NSBM Green University, Sri Lanka.
- Club Coordinator of the Swimming Club from 2018 to 2022 at NSBM Green University, Sri Lanka.

SKILLS

- **Data Engineering & Automation**
Designed and implemented automated data pipelines to ingest, transform, validate, and structure data from multiple sources. Built ETL workflows that improved data accuracy, consistency, and reporting scalability.
- **Programming & Querying**
Proficient in Python for data processing, automation, and pipeline development, and SQL for querying, transforming, and validating structured datasets. Strong object-oriented programming skills using Java and JavaScript.
- **Cloud & Infrastructure (AWS)**
Hands-on experience deploying and managing cloud-hosted applications on AWS, including EC2, S3, Lambda, DynamoDB, SageMaker, and Bedrock. Familiar with cloud-based scalability, availability, and environment configuration.
- **Analytics & Engineering Practices**
Developed predictive and classification models on datasets exceeding 50,000 records. Strong testing, debugging, and technical documentation skills to ensure reliable, maintainable, and production-ready data systems.

REFEREES

Amanda Muir

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