BASURU LOKUGE

Data Engineer Intern

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PROFESSIONAL SUMMARY

Motivated ICT undergraduate aspiring Data Engineer with hands-on experience in building ETL pipelines, data processing workflows, and backend systems using Python and SQL. Strong foundation in data transformation, cloud platforms, and real-time data applications. Passionate about working with large datasets and scalable data systems. Actively seeking a Data Engineer Internship to apply technical skills and gain industry experience.

TECHNICAL SKILLS

- **Programming Languages**: Python, SQL, Java, JavaScript
- **Databases**: PostgreSQL, MySQL, NoSQL Databases
- **Data Engineering & Analytics**: ETL Pipelines, Data Transformation, Data Cleaning, Pandas, NumPy, Data Modeling
- **Tools & Version Control**: Git, GitHub
- **Cloud & DevOps**: AWS (S3), Google Cloud Platform, Microsoft Azure, Docker
- **Web & Backend Technologies**: Flask, HTML, CSS, JavaScript, WordPress

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PROJECTS

StudyMate AI - Virtual Study Partner
- Situation: Aimed to create a highly interactive, AI-driven educational tool.
- Task: Build a platform capable of handling voice, text, and gesture inputs.
- Action: Integrated Claude AI with a Flask backend and a JavaScript frontend. Implemented computer vision for gesture recognition.
- Result: Developed a seamless user experience that provides personalized tutoring and automated study material generation.

Data Pipeline Builder
- Situation: Needed an automated solution to handle disparate data sources for centralized analysis.
- Task: Architect and implement a complete ETL (Extract, Transform, Load) pipeline.
- Action: Developed transformation logic using Python and Pandas to normalize 10,000+ records daily. Orchestrated data storage using AWS S3 and final loading into a PostgreSQL data warehouse.
- Result: Reduced manual data processing time by 90% and ensured high data integrity through automated error handling.

EDUCATION   May 2023- April 2026

Bachelor of Science Physical Science and ICT (BSc. PICT) - University of Sri Jayewardenepura
- Core Disciplines: Mathematics, Physics, and Information & Communication Technology.

ADDITIONAL EXPERIENCE

- Freelance WordPress Developer   April 2020- Present
- Committee Member - CSA (USJ)   Jan 2024- Feb 2025
- IEEE Member Student Branch (Volunteer)   May 2024- Present