

Sadurshan Punithasegaram

Data & AI Engineer

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Profile Summary

Results driven Data & Software Engineer with a strong background in building backend workflows, managing database architectures, and integrating enterprise cloud environments across regulated insurance and technology sectors. Backed by solid foundations in Python, SQL, and data modeling, with academic research focused on AI-powered optimization systems. Adept at transforming scattered, real-world data into clean, trustworthy pipelines and bridging technical execution with business strategy.

Technology Solutions & Product Tools

DevOps & Cloud Azure DevOps, AWS, Docker, CI/CD	Programming & Data Platforms Python MSSQL PostgreSQL MongoDB Snowflake MySQL	Tools & Framework JIRA Confluence Power BI UiPath Tableau Data Pipelines Data Governance Workflow Automation AI/ML Frameworks dbt Concepts
Digital Enablement & Automation UiPath UX/UI Design Principles API Integration concepts	Product & Agile Management Azure DevOps Jira Productboard MS Project Miro MS Suite	

Professional Experience

February 2023 – present Dubai, UAE	Howden Insurance Brokers  , Senior Support Engineer – Business Applications (Promoted from Application Developer : 2023 - 2025) (Product & Platform Support) - Designed and maintained backend Python and database scripts to streamline data flow and ensure data integrity across regional operations in the UAE, Oman, and Bahrain. - Structured data governance policies and cleaned up scattered platform architectures to create a single, reliable source of truth for insurance policies, client data, and compliance records. - Integrated third-party technology solutions and legacy systems via APIs, standardizing data structures to improve overall data quality and cross-functional visibility. - Deployed rapid data solutions to enterprise cloud environments (Azure), ensuring robust version control, testing protocols, and seamless CI/CD pipelines. - Collaborated with finance and compliance stakeholders to map complex operational workflows into clean, queryable database schemas.
April 2022 – November 2022 Colombo, Sri Lanka	Arimac Lanka  , Technical Business Analyst & Project manager - Developed data-driven analytical models and backend workflows, improving revenue-focused data pipelines by 7.9%. - Collaborated closely with cross-functional engineering and data teams to translate complex business requirements into well-structured data models and robust architectures. - Defined data validation metrics, system requirements, and integration workflows to ensure clean, high-fidelity data ingestion.

January 2021 – April 2022 Sri Lanka	Logicare <i>🌐 , Software Developer</i> - Developed backend applications and automated middleware integration workflows, drastically improving data reliability and pipeline performance across logistics platforms. - Wrote clean, maintainable Python/SQL scripts to transition manual data operations into automated, reliable digital pipelines, delivering \$1.8M in quantifiable business impact. - Implemented rigorous code reviews, testing frameworks, and version control (Git) best practices across the development lifecycle.
June 2020 – February 2021 Sri Lanka	Boost Hotel Software Solutions <i>🌐 , Intern Software Support Engineer</i> - Gathered and documented system requirements (SRS) for multi-client implementations. - Developed QA automation scripts and monitoring tools to improve system stability. - Proactively identified production risks and contributed to resolution planning.

Education	
United Kigndom	Bsc In Business Information Systems , <i>University of Wolverhampton</i> Thesis : AI-Powered Warehouse Optimization System: Enhancing Efficiency and Reducing Operational Costs
Sri Lanka	Higher Diploma in Computing and Software Engineering , <i>ICBT Campus (Cardiff Metropolitan University)</i>
Sri Lanka	Diploma in Information Technology , <i>Esoft Metro Campus</i>

Certificates		
- Cisco Certified Network Support & Security - FinOps Certified Engineer	- Cisco Certified Ethical Hacker - Certification in Data Science & Machine Learning	Certification In Critical Infrastructure Protection

Projects	
2025 – 2025	Scalable Data Lakehouse Implemented a data lakehouse using Delta Lake and Databricks for ETL, Snowflake for analytics, orchestrated via Airflow on AWS/GCP. Delivered real-time insights from structured and semi-structured datasets.
2024 – 2024	Data Engineering for Machine Learning Build a scalable data pipeline that integrates data transformation, feature extraction, and versioning in a feature storefor training and deploying insurance risk assessment and underwriting models.

Languages			
• English	• Tamil	• Malayalam	• Sinhala