RUKSHAN ANTHONY DIAS

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Portfolio: rukshandias.vercel.app • **GitHub:** github.com/Ruki-Diaz
Work Rights: Full-time work rights now (degree completed); transitioning to Temporary Graduate visa (subclass 485). Available full-time from 16 October 2026.

PROFESSIONAL SUMMARY

Computer Science (Data Science) graduate from Deakin University with a Distinction average, having led Data Science delivery for a 24-member industry capstone team. Builds and ships live data and AI products, from automated Python and SQL pipelines and machine learning forecasts to full-stack web applications in production. Seeking a Graduate Data Analyst role where I can deliver reliable data that drives decisions from day one.

TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, JavaScript, Java
Data & Analytics: pandas, NumPy, EDA, feature engineering, statistical analysis, data cleaning and validation, ETL/data pipelines, relational data modelling, Power BI, Plotly, Streamlit
Machine Learning & AI: scikit-learn, LightGBM, PyTorch, TensorFlow, model training and evaluation, NLP, LLMs, RAG, LoRA fine-tuning, agentic AI workflows
Software & Cloud: Flask, FastAPI, React, Next.js, REST APIs, PostgreSQL, Neon, Supabase, PostGIS, MySQL, Git/GitHub, GitHub Actions, CI/CD, Vercel, Render

EXPERIENCE

Chameleon (Deakin University industry capstone), Melbourne [Jul 2026 – Oct 2026]
Data Science Team Lead

- Led Data Science delivery for a 24-member team, setting priorities, allocating work and defining technical standards for code, notebooks and documentation.
- Reviewed code, Jupyter notebooks and visualisations through GitHub pull requests, improving quality and consistency before stakeholder release.
- Built reporting dashboards and analytical features that turn operational data into insight ready for decisions.
- Mentored team members on Git/GitHub workflows, pull requests and troubleshooting; top contributor by commits across the project period.

Chameleon (Deakin University industry capstone), Melbourne [Mar 2026 – Jul 2026]
Data Scientist

- Built Python data pipelines integrating Melbourne public transport, weather and event datasets into a single dataset ready for analysis.
- Applied EDA, feature engineering and visualisation to quantify how weather affects Melbourne public transport usage.

Irys Middle East LLC, UAE (remote) [Mar 2026 – Jun 2026]
Software Developer Intern (Data & AI)

- Built a full-stack invoicing and inventory application (Python, Flask, PostgreSQL/Supabase, JavaScript) used by a live business to manage customers, invoices, payments and stock.
- Designed the relational schema and SQL reporting layer, delivering dashboards, outstanding balance tracking and PDF/Excel exports.
- Deployed via GitHub and Render and provided user and technical support, troubleshooting issues and feeding fixes back into the product.

RCA Technology, Sri Lanka [Feb 2023 – Aug 2023]
Web Developer Intern

- Tested releases with senior developers, identifying defects and improving application functionality and user experience.

Woolworths Supermarkets, Doncaster VIC [Jun 2025 – Present]
Store Team Member (part-time)

- Deliver Fresh Convenience operations in a busy store, balancing part-time work with my degree and capstone team leadership.

PROJECTS

Melbourne Pulse melbourne-pulse-au.vercel.app

Python, LightGBM, Next.js, Neon Postgres, GitHub Actions, Gemini Flash

- Built a live civic analytics platform that tracks and forecasts pedestrian activity and parking availability across Melbourne's CBD from City of Melbourne open data (100+ pedestrian counters, 6,300+ parking sensors).
- Automated an hourly Python ingestion pipeline with GitHub Actions and pytest validation into Neon Postgres, serving a Next.js dashboard on Vercel at $0 running cost.
- Trained a LightGBM forecaster evaluated on 132,696 unseen sensor hours across 103 stations, reducing error by 10% against the typical week baseline (MAE 55.3 vs 61.7 people/hour).

AccessRoute AI github.com/Ruki-Diaz/wheelchair-accessible-navigation-ai

Python, FastAPI, NetworkX, OSMnx, PostGIS

- Developed a wheelchair-accessible navigation system using a custom A* algorithm that weighs several accessibility criteria over OpenStreetMap and elevation data, routing around stairs, steep grades and unramped kerbs.
- Extended a Deakin SIT215 Computational Intelligence prototype into an offline PWA backed by 257 automated tests.

Square Lanka squarelanka.vercel.app

React (Vite), Flask, Supabase (PostgreSQL), Vercel, Render

- Built a property listing platform for the Sri Lankan market with filtered search by district, property type, purpose and price, agent registration and WhatsApp enquiries.
- Developed the Flask REST API with Supabase authentication and PostgreSQL storage, deployed on Render with the frontend on Vercel.

Momentum momentumtodo.vercel.app

JavaScript (PWA), TypeScript serverless API, Neon Postgres, Drizzle ORM, Clerk, OpenAI/Gemini

- Built a productivity app with an LLM assistant that handles natural language task capture and daily planning through a provider adapter (OpenAI or Gemini).
- Delivered offline local mode plus cloud sync to Neon Postgres via TypeScript serverless functions, with Clerk authentication and accessible light/dark themes.

EDUCATION

Deakin University, Melbourne [2024 – 2026]

Bachelor of Computer Science (Data Science major)

- Completed with a Distinction average.

REFERENCES

Available upon request