UJWAL RAUT

BI Developer | Data Analyst

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Portfolio | LinkedIn | GitHub

WORK EXPERIENCE

BI Developer Intern | R2P Group | May 2026 – Aug 2026

- Built the V&V Flightdeck, a BI platform unifying Jira and Zephyr Scale data. Delivered release readiness, defect verification, and regression tracking to Head of IT, Engineering Lead, and QA teams, streamlining quality engineering for Netspire monthly releases.
- Redesigned reporting architecture: Replaced once-daily batch with idempotent hourly-refresh pipelines using CDC and strict reconciliation. 24x freshness gain, shifting stakeholders from static reports to hourly-refreshed insights.
- Developed a PostgreSQL Data Mart with 3-layer architecture, using incremental ETL pipeline processing 240K+ records monthly across 300+ test cases and 30+ Jira tickets per Netspire release cycle.
- Developed Streamlit snapshot reporting and Metabase trend dashboards to deliver KPI-based release insights and historical analysis.
- Engineered production-ready Airflow pipelines with automated orchestration and incremental processing. Built execution logging capturing error context (script errors vs source connection errors) for rapid root-cause diagnosis.

SELECTED ANALYSIS PROJECTS

Insurance Portfolio Review Prioritisation | SQL, Python, Tableau

Context: Portfolio reviews were conducted without a structured prioritisation framework, spreading review effort evenly across 1.05M policies regardless of risk concentration.

- Focused review effort on the highest-risk policies by identifying that 30% of policies accounted for 55% of claims across 1.05M records, using SQL-based cohort analysis, Pareto segmentation, and lift scoring.
- Tested whether the concentration pattern held across tenure cohorts and policy segments, reducing the risk that the result was driven by a single subgroup.

Australian Labour Market Pressure Analysis | Python, Tableau

Context: Early-career job seekers have no structured way to assess which occupations and states have genuine workforce shortages, or whether graduate supply is closing the gap.

- Published an interactive Tableau dashboard combining Internet Vacancy Index, ABS labour force, and 485 Graduate Visa data to analyse labour-market pressure by state and occupation.
- Identified sharp differences in labour-market pressure across states and occupations, showing that 485 graduate visa inflows had uneven effects across professional roles.

CORE SKILLS

Analysis: KPI Review, Pareto Analysis, Cohort Analysis, Segmentation, Hypothesis Testing
Data & BI: SQL, PostgreSQL, Python, Tableau, Power BI, Excel, Streamlit, Metabase.
Data Engineering: ETL/ELT, Incremental Loading, Data Modeling, Data Mart Development, Apache Airflow, REST API Integration, Data Quality & Reconciliation, Git/GitHub.

EDUCATION

Master of Information Systems, Major in Data Analytics | Graduated: July 2026
Australian Institute of Higher Education, Sydney | WAM: 81.64