Xinlyu (Rick) Wang

0432 590 577 | xinlyuwang96@gmail.com | Australian permanent resident

AWS Solutions Architect Associate | Full-stack Developer & Data Engineer

LinkedIn: https://www.linkedin.com/in/xinlyuwang/   Personal Page: https://www.rickwang.me/

Education

Master of Information Technology   *Jul 2021 - Jul 2023*

The University of Western Australia, Perth, Australia

- **WAM:** 75.4

- **Awards:**   - 2023 WA Hackathon Runner-up Prize   - SLB Data Science Hackathon 3rd Prize
  - CITS5504 Data Warehouse Unit Hall of Fame

Master of Professional Engineering (Electrical and Electronic)   *Jul 2017 - Jul 2019*

The University of Western Australia, Perth, Australia

- **WAM:** 76.8

Bachelor of Automation Engineering   *Sep 2014 - Jun 2017*

Southwest University of China, Chongqing, China

- **WAM:** 82.6   **Awards:** The First Prize Scholarship & Outstanding Graduates

Work Experience

Business Automation Engineer (Contract)   *Jul 2023 - present*

Bluetip Pty. Limited, Perth, Australia

- Performed data scraping and analysis utilising Python and ChatGPT API, deriving insights that informed strategic decisions in Excel spreadsheets, saving the manager an average of 2 hours per week compared to manual methods. Developed and implemented an onboarding system using Microsoft Power Apps to streamline the integration process for new hires.

Business Analyst (Vacation Program)   *Jan 2023 - Mar 2023*

Infosys Technologies (Australia) Pty. Limited, Melbourne, Australia

- Collaborated with a team to research, design, and develop a greenhouse gas emission calculator web application, facilitating environmental accountability and sustainability.

IT Support (Part-Time)   *Feb 2022 - Dec 2022*

Litherium Australia Mining Pty Ltd, Perth, Australia

- Developed and maintained the company's official website and managed the blockchain & NFT project, enhancing user engagement and project visibility. Contributed to a 200% increase in the company's cryptocurrency value and a 300% rise in website visit duration.

Project Experience

SLB Data Science Hackathon Project   SLB   *Oct 2023*

- Engineered an innovative machine learning model to predict iron ore's lump (>6.3 mm) and fine

characteristics, eliminating the need for additional expensive and time-intensive diamond drilling and metallurgical testing. Leveraging advanced machine learning algorithms, analysed wireline data to extract critical quality predictors of the ore. The result delivered predictive insights into the ore characteristics, facilitating cost-effective mining operations and informed strategic planning.

2023 WA Hackathon Project   Department of Fire and Emergency Services   *Jun 2023*

- Engineered a robust web application tailored to DFES coordinators to enhance emergency response efficiency. The application specialises in processing and extracting critical data from first responder phone calls, such as identifying location names and making evacuation decisions. To overcome obstacles such as poor audio quality and background noise, we integrated the local Whisper model with the ChatGPT API.

Data Analyses & Wearhouse Project   the University of Western Australia   *Feb 2023- Jul 2023*

- Completed exploratory data analysis and visualisation projects using the US Mine Safety and Health Administration Accident and Injury database to unearth patterns and root causes of workplace injuries. Developed strategies to mitigate injury risks through classification modelling.

- Utilised data analysis and graph database techniques to refine data extraction, transformation, and loading (ETL) skills with Microsoft SQL Server. Expertise in complex data interpretation showcased by uncovering significant correlations between crime types, locations, and time periods, supported by report generation in PowerBI.

Roborigger Dashboard Project   Roborigger, Wangara, Australia   *Jul 2022 - Nov 2022*

- Innovated a monthly report generator that distilled complex data into actionable insights, driving business efficiencies and decision-making processes. As the data analyst, I developed Python scripts using the Panda and Matplotlib libraries to create visually compelling plots that elucidated client data trends.

Volunteer Experience

Developer Mentor Get2Know   *Dec 2023 – present*

- Authored a comprehensive Developer Working Guide detailing GitHub branching and GitHub issue strategies to optimise the development process, accompanied by a Docker usage manual to clearly explain common command-line operations, enhancing team competency and resource accessibility.

- Established GitHub Actions to seamlessly integrate GitHub issues with the Asana project management platform, improving project tracking efficiency.

Skill Summary

- **Programming Languages & Frameworks:** Advanced skills in Python, SQL, React, Django
- **Security & Authorization**: Experience with JWT, Cyber Security practices
- **Cloud & DevOps**: Proficient in AWS, Azure, Docker, and Terraform, Jira
- **Version Control & CI/CD:** Skilled in Git, GitHub Actions
- **Data Analysis**: Familiar with Power BI, machine learning concepts