YUE NIU

CLOUD DATA ENGINEER AND BACKEND DEVELOPER

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SUMMARY

Results-oriented software engineer seeks challenges with ambitious cloud and backend engineering teams. A proven track record in cloud migrations, machine learning for data analysis, full-stack application development, and client interaction. My project details are at LinkedIn. Available now for immediate start.

SKILLS

Development: JavaScript, React, TypeScript, Python, Flask, HTML, CSS

Cloud: AWS, Tencent Cloud, Nginx

Data & ML: MySQL, DynamoDB, MongoDB, Hadoop, Snowflake, Redis, Machine & Deep Learning

Tools: Git, Jira, Postman, Docker, Kubernetes, Jenkins

PROFESSIONAL EXPERIENCE

Data Engineer   ePipe Cloud
(Intern, Remote)   Adelaide, SA | Oct 2022–Dec 2022

Role: Data engineering, decision science, and cloud migrations within an Australian data consultancy.

Responsibilities:

- Introduce Jira automations and Git integration within engineering team to improve code reviews
- Perform Extract Transform Load (ETL) tasks to combine client data in the cloud via AWS Glue
- Integrate Machine Learning with models built on client data to aid their decision making
- Find opportunities to reduce operating costs through optimisations and process improvements

Achievements:

- 15% faster feature completion through smoother code reviews and fewer defects in testing
- 15% improvement in company's standard model prediction accuracy
- 10% increase in client's user engagement through improvements to their recommendation system
- 30% cost reduction for AWS Glue by optimising data throughputs to shorten resource usage time

Software Development Research Assistant   Henan Normal University
(Intern, On-site)   Henan, China | Jan 2021–Sep 2021

Role: Full-stack software development of a cloud-based student learning evaluation and feedback app.

- Contributed to key architectural and design decisions reducing development cycle lengths by 15%
- Optimised Entity Relationship diagrams and SQL queries to increase system capacity by 35%
- Developed native WeChat app for students through cloud-hosted services, achieving 30% improvement in student user retention and 25% reduction in cloud operating expense

Electrochemical Materials Researcher   Waterloo Institute for Nanotechnology
(Full-time, On-site)   Waterloo, Canada | Sep 2019–Nov 2020

Role: Led research and co-authored leading papers in battery materials and clean energy technologies.

EDUCATION

Master of Information Technology   University of NSW | Sydney, NSW | 2021–2023

Master of Applied Science   University of Waterloo | Waterloo, Canada | 2017–2019