Khang Dao

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SUMMARY

Experienced Cloud & Software Engineer with 2+ years of experience in full-stack development building scalable systems, DevOps, and Cloud.

EDUCATION

Bachelor of Computer Science, Monash University

Bachelor of Finance, Monash University

SKILLS

Languages: HTML/CSS, JavaScript/TypeScript, Python, C#, Java/Groovy, HCL (Terraform), BASH, Powershell, R

Technologies/Platforms: AWS, Azure, HashiCorp Vault, Docker, Jenkins, NodeJS, GraphQL, PostgreSQL, MongoDB, React, Spring Boot, Express, Excel Power BI

Soft Skills: Teamwork, Communication, Adaptability

EXPERIENCE

Cloud Engineer – NAB   May 2024 –Present

- Continuously playing a key part in saving millions of dollars for the company annually by building and maintaining applications that focus on cost savings for resources in the cloud
- Developed a cross-platform, serverless, solution for monitoring/alerting in AWS using Lambdas and CloudWatch Logs; and in Azure using Functions and Application Insights, with notifications sent to Microsoft Teams channels via webhooks to be triaged and actioned by internal support team
- Implemented containerisation of team applications to ensure a seamless experience for: development, testing, and deployment - providing an OS/device-agnostic solution to the "but it works on my machine" problem
- Uplifted a central microservice from a functional(ish) to an object-oriented paradigm, adhering to the SOLID principles of OOP to enhance: extensibility, modularity, and reusability, as well as to set a precedent for future code changes
- Aid in the solution design and prototyping of a full-stack web application for company-wide data analysis of tag-based cloud resource scheduling

Associate Cloud Engineer – NAB   February 2023 – May 2024

- Automated the creation/destruction of various cloud resources using IaC with Terraform for the purpose of application testing. This included EC2 instances, Auto-Scaling groups (ASGs), RDS clusters/instances, ECS clusters - allowing accelerated manual acceptance testing in AWS
- Orchestrated the uplift of legacy CI/CD Jenkins pipelines for all team applications by mapping out and standardising necessary pipeline stages that included both shared and specific components in order to streamline deployment processes to AWS & Azure
- Identified gaps in automated testing suites and wrote unit tests to increase code coverage for those gaps, improving both service reliability and overall test effectiveness

Software Engineer Intern – NAB   February 2022 – January 2023

Worked as a software engineering intern in NAB's Enterprise Lending Platform team.

Key Responsibilities:

- Developed and deployed various feature enhancements to the company's enterprise lending platform application in the home ownership domain, working with GraphQL, Node, Express, PostgreSQL
- Authored comprehensive unit tests to validate application functionality and ensuring high code quality whilst minimising the risk of future system failures
- Identified, diagnosed, and remediated critical server vulnerabilities on AWS EC2s

Junior Data Scientist – ANZ   July 2021 – January 2022

Worked as an intern at ANZ's innovations arm in the field of data science and business analytics.

Key Responsibilities:

- Developed a prototype fuzzy matching solution to identify customers consistently, across multiple platforms in order to facilitate data pooling for a more comprehensive customer profile
- Implemented and assessed multiple techniques for building a recommendation engine to enable a personalised user experience, with algorithms ranging from collaborative filtering to content-based filtering; as well as hybrid approaches