| Jason Merefield  Senior Platform Engineer | Cloud-Native Architect | DevOps Leader | **Northmead, NSW, 2152**  **(+61) 431-746-999**  **jmerefield@gmail.com** |
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| SUMMARY Experienced Cloud & Platform Engineer | AWS Certified | DevOps & Infrastructure Leader  Platform Engineer with 10+ years of hands-on experience designing and delivering secure, scalable, and highly available cloud platforms across AWS and Azure. Proven ability to automate infrastructure with IaC (Terraform, CDK), streamline CI/CD pipelines (GitHub Actions, Bitbucket, Azure DevOps), and implement modern DevOps practices.  Background includes 10+ years of software and data engineering, giving me a unique edge in building developer-friendly infrastructure and enabling seamless platform adoption. Passionate about building cloud-native applications, managing containerised environments (Docker, Kubernetes, ECS/EKS), and ensuring full-stack observability and security.  Adept at leading technical teams, delivering greenfield platforms, and optimising cloud environments for performance and cost. Deep experience across startups and enterprises, from energy to consulting and SaaS. Orkestra Energy, Remote — Staff Platform EngineerOCTOBER 2024 - CURRENTMaintain and improve CICD pipelines (GitHub Actions and CDK builds)  * Maintain and improve Backend platform (FastAPI + ECS Services + DB Proxy and DB Instances + Lambda Runners) * Implement and maintain Observability via Sentry IO and CloudWatch + X-Ray + OTEL  BrainEye, Sydney — Lead Cloud EngineerNOVEMBER 2022 - OCTOBER 2024Designed and developed backend platform for BrainEye’s flagship mobile App using event-driven design and serverless compute  * Designed and developed multi-regional environments with integration into AWS Cognito via custom-built Global User Directory * Designed and developed Data Lake for Data Science team to rapidly analyse and process key outputs from mobile App * Configure CICD pipelines from BitBucket through to multiple environments and regions  Bain & Company, Sydney — Senior Software Engineer, Platform, Global EngineeringJULY 2021 - NOVEMBER 2022Design and development on a secure end-to-end application deployment platform based on Kubernetes Platform on AWSDesign and development on CICD pipelines on GitHub Actions with target of above platform; pipeline includes unit testing, security scanning (Snyk), UI testing (Selenium), Delivery (ECR), Deployment (using Helm Charts)Cased on multiple projects with varying levels of DevOps requirements; current project is to boost the client’s DevOps capabilities on Azure.Bain & Company, Sydney — *Senior Associate, Data Integration*APRIL 2020 - JUNE 2021Working within the Data Science team at Bain’s Advanced Analytics GroupConsulting on ad-hoc enquiries, embedded client projects and providing subject matter expertise on Data Science, Data Engineering and Cloud Engineers.Business Minds / QVARTZ Analytics, Sydney — *Team Leader in Analytics*APRIL 2019 - MARCH 2020Working as a consultant assigned to a Big 4 bank.Tasks include Customer Segmentation, Campaign Analytics, Customer Insights and Leading onsite team of Analysts.Mojo Power, Sydney — *Head of IT & Development*APRIL 2018 - MARCH 2019  * Managed internal IT team, suppliers, vendors, and partners. * Designed and developed advanced cloud-based solutions for internal tools, system integration and self-service analytics using AWS Services. * Provide analytical services for the Exec team.  Mojo Power, Sydney — *Manager of Data & Analytics*APRIL 2015 - APRIL 2018  * Designed, developed and managed all data and analytics systems. * Subject Matter Expert on Energy-related systems and markets. * Manager of the Analytics and Forecasting Research Team. * AWS designer and developer. Due to company being start up most solutions were optimised for cost, resulting in many built-from-scratch solutions using Serverless designs as possible  Alinta Energy, Sydney — *Senior Commercial Analyst*MAY 2014 - JAN 2015  * Provide internal analytics for Sales, Marketing, and Commercial teams. * Build internal capabilities for Short and Medium term Load Forecasting.  Australian Power & Gas, Sydney — *Marketing Analyst*AUGUST 2011 - APRIL 2014  * Working primarily within the Commercial Retail business unit to provide analytical services to the Sales, Marketing, Regulatory, Legal, Wholesale, and Financial teams. * This includes maintaining cost stack models and other various Retail models, creating and maintaining Retail-based reports, analysing customer segmentation and behaviour, analysing competition and market behaviour, performing pricing analysis and recommendations, and forecasting customer acquisition and attrition.  ROAM Consulting, Sydney / Brisbane — *IS Manager*AUGUST 2004 - JULY 2011  * Designer and developer of major software systems and solutions, such as Parallel Distributed Model Simulation System. * Provide modeling and operational support in various Consulting Projects.  PROJECTSAnalytics Project Platform - Design, Develop and Manage the Platform to Host Analytical Projects Most projects are two-tier, frontend in either React or Django, backend is Python flask. Responsibilities are to assist Developers with DevOps principles such as: Continuous Quality (using pre-commit hooks and linting), Shift-left Security (auto scan dependencies upon commit to target branches), Continuous Integration (using Docker images to minimize differences in environments). Other responsibilities is to assist with the K8s supporting services, such as Vault CSI, EFS CSI, RBAC-controlled access, frontend Ingress and Load Balances. MyMojo Portal — *Design, Develop and Manage the Portal Back End services* Designed, developed and managed the Data Systems, Authentication Systems, ETL Processes, Calculators, and Delivery Systems to support the MyMojo Portal, both web-based and mobile based. All systems / processes run on the AWS Cloud Environment, code management via Agile methodology and DevOps principles. Distributed Generation Simulation — *Design and Develop a set of relatable processes to simulate Distributed Generation* Distributed Generation uses Solar Generation and Battery Storage to emulate a Virtual Power Plant. The simulation used real usage data, both real and synthesised solar generation, and optimisation modelling to determine the most cost effective way to utilise the many batteries and ‘standard grid imports’ to meet the demand of the households, as well as meet other potential benefits, such as Wholesale High Price Event triggered load reduction via automated Demand Side Management. Load Forecast System — *Design, Develop and Manage the Household-level Load Forecast models* Each related household has an Interval meter, and using Machine Learning techniques along with other relatable data, such as Weather data, create a set of models that can be used to predict each household’s individual load. Serverless Event Driven Design — *Design and Develop a Proof of Concept Serverless version of a Kafka-like Pub/Sub System* In order to keep relatable services ‘in sync’ I created a design for a Serverless solution, based off Apache’s Kafka system, by leveraging off Amazon Web Services such as Kinesis (for streaming), Lambda (for processing), DynamoDB (for configuration management and state management), and Athena (for data monitoring and visualisation). Publishers can emit an event or control message, a ‘fan-out’ processor would then determine which of the subscribers wants to know about that particular type of message, and then invoke the related end process with the message, where the end-point could be practically any other AWS service, or any HTTP-endpoint. | SKILLS  * **Cloud Platform:** * + AWS * **IaC:** * + CloudFormation + CDK * + Terraform * **CI/CD Pipeline:** * + AWS CodeBuild / CodePipeline * + GitHub Actions * + BitBucket Pipelines * **Serverless:** * + Serverless Computing Programming with AWS Lambda * + Serverless Workflows with AWS Step Functions * **Containerisation:** * + Containerised Applications with Docker * + Containerised Management with AWS ECS and AWS EKS (K8s) * + Kubernetes Package Management with Helm Charts * **Security:** * + Secret Management with Hashicorp Vault * + Security Scanning with Snyk * **APIs:** * + API Development with AWS API Gateway * + FastAPI maintenance and contribution, including SQLAlchemy ORM  PROGRAMMING LANGUAGES Python, Node JS, Bash Scripting |
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