

SEAN MEEHAN

APPLICATION ENGINEER | DATA & ANALYTICS

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EXPERIENCE

APPLICATION ENGINEER

Vanguard Australia, Melbourne | Jan 2024 - Present

- Led Palantir Foundry platform engineering for Vanguard Australia, partnering with Palantir to establish additional development environments and implementing secure release management practices across 26 production deployments.
- Delivered significant Palantir Foundry platform optimisations including \$107k annual savings via ingestion pattern redesign, 730 compute hours saved through transformation refactoring, and established role-based access control using Palantir mechanisms and SSO integration.
- Built an event-driven streaming microservice using AWS Lambda event listeners, API Gateway REST endpoints and Lambda processing functions, enabling instant client registration data delivery to downstream marketing systems.
- Architected schema design and data modeling for AWS integrations with Adobe Experience Platform CDP and Salesforce Marketing Cloud, enabling real-time customer data activation across marketing channels.
- Assumed ownership of complex regulatory reporting Python application and accompanying Jupyter Notebooks. The expanded reporting scope required gaining a deep understanding of highly specialised business logic, running discovery workshops to document requirements, translation of requirements into production Python code and output reconciliation cycles with business stakeholders.
- Designed and developed an observability solution, leveraging Microsoft Power Automate to automate the generation of pipeline failure alerts, tailored to upstream event source and recipient audience.
- Developed and deployed proof-of-concept client account funding propensity model using Amazon SageMaker, building XGBoost based pipeline and production inference endpoint to validate ML infrastructure capabilities.
- Organised and presented at internal analytics and engineering events, including co-lead for Datathon 2025 (AI/ML-enabled analytics hackathon), creator of "Think like a Developer" brownbag teaching software engineering practices to business professionals (60+ peak attendance) and ML hackathon participation, developing an intelligent adviser client pairing solution.
- Pursued continuous AI/ML professional development including fast.ai Practical Deep Learning Part 1, prompt engineering, Vanguard AI essentials and Amazon Bedrock training, strengthening technical capabilities for machine learning initiatives.

SKILLS

Python

SQL

AWS

Application Development

Data Engineering

AI/ML

Tableau

Power BI

Palantir Foundry

API Development

ELT/ETL

PySpark

Jupyter Notebooks

Adobe Experience Platform

Salesforce Marketing Cloud

Agile

CI/CD Practices

SEAN MEEHAN

EDUCATION

Master of Finance

RMIT University,
Melbourne 2014 - 2016

Bachelor of Business (Logistics & Supply Chain Management)

RMIT University,
Melbourne 2008 - 2012

PROJECTS

App Composer ([GitHub](#))

AI powered project planning and development orchestration platform. Uses multiple agents to scope complex project ideas

algo-trading ([GitHub](#))

Integrated trading data sourcing, transformation, RL model training and model deployment into real or paper trading accounts

AWS API Factory ([GitHub](#))

Config driven factory pattern that transforms business logic into production ready APIs on AWS, powered by AWS CDK (Python)

EXPERIENCE *CONTINUED*

SENIOR DATA ANALYST

Vanguard Australia, Melbourne | Jan 2022 - Dec 2023

- Developed complex SQL queries in AWS Athena and Hue to enable marketing campaign targeting (36 annual campaigns, up to 20,000 recipients), sales performance reporting and dashboard construction.
- Led end-to-end delivery of a sales and marketing leadership dashboard: facilitated workshops, translated problem statements into wireframes, built modular Python/SQL data models and pipelines, and delivered the Tableau product to business users.
- Coordinated legacy application discovery, knowledge transfer and assisted the development of a new modernised, serverless, event driven analytics solution for the corporate finance team. The solution migrated assets from AWS EMR to Glue, Glue Catalogue and Lambda, using Python and SQL.
- Supported senior stakeholders through the delivery of ad-hoc analytics covering market share trends, cashflow growth patterns and relationship NPS, providing data driven insights that informed sales and marketing resource allocation decisions.
- Won Vanguard Australia's inaugural AWS DeepRacer competition (100 participants) by developing a custom reward algorithm in Python and training a reinforcement learning model for autonomous racing.

PERFORMANCE ANALYST

Vanguard Australia, Melbourne | Aug 2020 - Dec 2021

- Delivered an end-to-end data lake analytics solution for corporate finance, including automated AWS EMR data lake transformation pipelines (Python, SQL, PySpark) and SOX-compliant Tableau reporting, enabling finance teams to eliminate manual processes and improve reporting timeliness.
- Utilised native Dynamics CRM connectivity with Power BI to automate compensation dependent KPI reporting for the Distribution team. Continuously improved the data model and visualisation to incorporate user feedback, improve performance and unlock additional insights.
- Led continuous improvement of 20+ production dashboards across Power BI, Tableau and Dynamics CRM through structured stakeholder engagement, user feedback triage, data model optimisation and enhanced visualisations.
- Responsible for ongoing onboarding and training of new analytics team members.