

Keegan Ott

CLOUD-NATIVE DATA PLATFORM DEVELOPER

Perth, Western Australia

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Summary

Cloud-Native Data Platform Developer with experience delivering data platforms, integration services, and production applications across consulting and mining environments. Specialises in Azure data engineering, API and integration development, and reliable cloud-native systems.

Work Experience

Akkodis (formerly Modis Consulting)

Perth, Western Australia

DATA ENGINEER

Mar. 2021 - PRESENT

- Worked independently across multiple client projects and internal product development
- Developed and maintained the .NET 10 REST API, event-driven Azure Functions workers, and Angular 20 web app for a law-enforcement intelligence-analysis platform, delivering AI-driven capabilities including semantic search, a RAG chatbot, facial search, and automated document translation, using Cosmos DB, Azure AI Search, Azure OpenAI, Service Bus, Durable Functions, SignalR, Redis, Key Vault, App Configuration, and Application Insights
- Engineered a self-hosted, air-gap-capable edition of the same platform by re-hosting Azure Functions workloads as containerised .NET services on Kubernetes with KEDA scale-to-zero autoscaling, replacing Azure Service Bus with Wolverine over RabbitMQ and porting durable orchestrations to SQL Server via a maintained fork of Microsoft's durabletask-mssql provider
- Developed and maintained .NET 8 APIs and Azure Functions for the TGA Australian Unique Device Identification platform, using Cosmos DB, Redis, Azure Storage, App Configuration, Key Vault, Azure AD B2C, Application Insights, and Swagger
- Designed and implemented a Data Warehouse and ELT pipelines on Azure Synapse
- Developed custom data parsing/processing/validation pipelines using Azure Durable Functions
- Developed a custom ReactJS website with dynamic graphs, alerts and navigation, along with supporting backend C# API services
- Deployed, optimised and maintained Azure SQL for a high-throughput OLTP application
- Developed multi-project CI pipelines with Azure DevOps (ARM, Bicep, Azure CLI)

Roy Hill Iron Ore

Perth, Western Australia

INTEGRATION ANALYST

Aug. 2016 - Mar. 2021

- Designed, built and supported several RESTful API services for mobile applications used within the company
- Designed and implemented a custom solution for real-time change data capture from operational databases using Java, Apache Kafka, Debezium and MySQL; provisioned and supported all involved platforms
- Administered, developed and supported API, B2B and external integration services interacting with many third-party and internal vendors and applications on the SAP NetWeaver platform
- Extended and maintained a custom master data management tool using SAP HANA, NetWeaver and Fiori/UI5
- Technical Lead for business-systems integration (BAU & greenfield projects)

Keepspace

Perth, Australia

FULL STACK DEVELOPER

Mar. 2016 - Aug. 2016

- Developed static website content for user onboarding
- Developed a visual display of a customer's stored items in a single-page application using ReactJS
- Formulated marketing strategies and UX guidelines for the business

Undergraduate Projects, Curtin CompSci Dept. w/ Curtin Psychology Dept.

Perth, Australia

UNDERGRADUATE RESEARCHER

Mar. 2014 - Nov. 2014

- Researched computational methods for mapping a patient's gaze to positions on a computer screen for the diagnosis of medical/psychological conditions.
- Developed a software-based system for delivering stimuli and recording a patient's face in real time using open-source computer-vision toolsets and C++

Skills

Data Platforms	Azure Synapse, Azure Dedicated SQL Warehouse, Azure SQL, SQL Server/T-SQL, ELT pipelines, data parsing and validation
Cloud & DevOps	Microsoft Azure, Amazon Web Services, SAP Cloud Platform, Azure DevOps, CI/CD, ARM, Azure CLI
Integration	REST APIs, SAP NetWeaver PI/PO, SAP NWDS, SAP ECC, Apache Kafka, Debezium, Oracle J2EE
Software Development	Java, Python, C#/.NET, TypeScript/JavaScript, React, Node.js, SAPUI5, XSLT, ABAP/OO-ABAP, Bash, C, Groovy
Databases	SQL Server, Azure SQL, MySQL, Oracle/PL/SQL, PostgreSQL, SQLite

Education

Curtin (Curtin University of Technology)

Perth, Western Australia

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2012 - Nov. 2015

- Final projects and research interests in Machine Vision, Machine Learning, and Data Analysis