Aaron Lee

Integration Officer, Mater, Brisbane

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Summary

Four years on Mater's Integration team, building and supporting HL7 v2 and FHIR interfaces on Rhapsody and InterSystems IRIS, from development through to production support. I investigate incidents with clinical users and vendors, query clinical system data in SQL every day, and work with clinical, administrative and vendor teams on requirements and design within the hospital's existing interoperability ecosystem. Currently studying AI and agent operations and AWS.

Skills

Core	Rhapsody, InterSystems IRIS and IRIS for Health, HL7 v2, FHIR (including Bulk Data), Azure API Management
Data	SQL (InterSystems IRIS/Caché, Microsoft SQL Server), Oracle via IRIS SQL Gateway, IRIS/Caché database administration
Support	Incident management and root cause analysis, ITSM administration (Cherwell, Servicely), Azure DevOps boards and wiki
Also	REST APIs and OpenAPI, Python, Azure, Azure DevOps pipelines, TypeScript and React
Studying	AI and agent operations, AWS (certifications in progress)

Experience

2022 – present

Integration team, Mater, Brisbane

Currently Integration Officer

- Work with clinical, administrative and vendor teams on requirements and design for integration solutions
- Build and support HL7 v2 and FHIR interfaces in Rhapsody and InterSystems IRIS, from development through to production support, monitoring and incident follow-up
- Investigate incidents and data issues daily in SQL across InterSystems IRIS/Caché and Microsoft SQL Server, often starting from a symptom reported by a clinical user, and coordinate fixes with vendors including Dedalus, Meridian, Rauland, Sonic Healthcare, Medical-Objects and Queensland Health
- Administer the team's queue in the ITSM platform (Cherwell, now Servicely), and InterSystems IRIS/Caché databases, including the database of the hospital's HIPS instance for My Health Record
- Implemented a proof of concept importing National Health Services Directory (NHSD) data over FHIR Bulk Data into IRIS, following NHSD's published guidelines. Proposed both the import design and how hospital staff would search and use the data. Contributed to the solution architecture design
- Implement file-based feeds from external vendors into IRIS from connector specifications (SFTP via DMZ, RecordMap)
- Worked on an API platform migration to Azure API Management, writing Python OpenAPI tooling and Azure DevOps pipelines
- Keep technical documentation and support procedures in the Azure DevOps wiki

2013 – 2018

Carpenter and site manager, IBuild Carpentry Solutions, Sydney

- Managed more than 50 structural building projects for builders and renovators on tight timelines
- Coordinated trades, clients and inspections on site

Work examples

Mater, 2026

National provider directory on FHIR (proof of concept)

Imported NHSD data over FHIR Bulk Data into InterSystems IRIS for Health: OAuth and TLS, export polling, delta and complete extracts, staging, and a searchable practitioner and practice directory with change history. Proposed a staff search page and a recipient lookup served through REST APIs, and contributed to the solution architecture design.

Personal, 2026

Community app platform (in testing)

A mobile app, admin portal and café point-of-sale on one API for a church community: React Native, FastAPI, PostgreSQL and Azure (Container Apps, Key Vault, Bicep, GitHub Actions). Built by directing AI coding agents from my own specifications and reviewing and testing their output. Includes an Azure OpenAI support bot that answers member questions from the FAQ, role-based access, encrypted sensitive data and ledger-based café credit. In testing for an organisation of around 1,000 people. Private repository; code walkthrough on request.

Education and training

2018 – 2022	Bachelor of Information Technology, University of Technology Sydney. Majors in Enterprise System Development, and Networking and Cybersecurity
2022	Managing InterSystems Servers – IRIS (InterSystems); Microsoft Azure Fundamentals AZ-900 course (DDLS)
2012 – 2015	Carpentry apprenticeship, TAFE NSW

References available on request.