

HSU MYAT MON

Data & ML Engineer | AI Systems | Azure & Microsoft Fabric

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PROFESSIONAL SUMMARY

Data & ML Engineer who designs and ships end-to-end platforms solo — from medallion architecture and PySpark pipelines to AI agents and production UIs. Currently owning Ennovie's full data and AI stack on Microsoft Fabric, where a custom APS I built from scratch lifted on-time delivery to 97%.

EXPERIENCE

Data & Machine Learning Engineer — Ennovie (Sept 2025 – Present)

Core Data Architecture & Algorithmic Engines

- Architected Ennovie's inaugural Medallion Data Platform on Microsoft Fabric, unifying Business Central ERP and Dataverse across Finance, Inventory, Sales, Product Development, and Production via 13 lakehouses, 10 warehouses, and 26 PySpark notebooks.
- Built a custom PySpark Advanced Planning & Scheduling (APS) engine that lifted on-time delivery to 97%, replacing manual planning for 25,000+ weekly production orders (200K+ operations) and reverse-syncing schedules into Business Central via custom AL extensions.
- Engineered a zero-code configurable scheduling system (~80 parameters, 12 rule tables), enabling planners to modify scheduling logic dynamically without deployments, verified by an automated invariant-checking test harness.

Full-Stack Enterprise Platforms & 3D Web Apps

- Shipped EnnOne, an enterprise operator platform (Next.js / React / TypeScript) with 104+ API routes spanning APS scheduling, casting, RFID tracking, outsourcing approvals, and production tracking—secured via Microsoft Entra SSO.
- Architected a collaborative 3D CAD Customer Portal (three.js + rhino3dm) for native Rhino .3dm files, digitizing design-to-approval lifecycles with 3D spatial pinning/commenting across Clients, CS, and CAD teams, alloy weight estimation, AI spec sheet population, and automated stage-gate notifications.

Intelligent Automation & AI Systems

- Reduced customer order-creation time from ~30 minutes (up to 3 days during backlogs) to seconds, engineering an automated pipeline (Azure Document Intelligence) that ingests, normalizes, extracts line items from email invoices, maps barcodes to Business Central item master data, auto-generates sales orders, and notifies the sales and customer service teams after creation.
- Embedded an enterprise Claude AI layer, deploying conversational planning assistants, CAD computer vision tools, and automated executive briefings to give non-technical stakeholders natural-language access to proprietary data.

Analytics & Performance Optimization

- Optimized analytical reporting performance, delivering near real-time Power BI semantic models and applications that slashed dashboard query latency from minutes to seconds.

Data Engineer — AIA Myanmar (Sept 2024 – Sept 2025)

- Automated 7+ workflows using Azure Vision AI – classified the email attachment files and routed them to CMS by detected form ID/title and policy number, boosting efficiency 30x across teams, saved over USD 38,000 BU-wide.

- Built AI-powered OCR pipeline (YOLOv8, PyTorch, Azure Doc Intelligence), cut claim processing time by 50%.
- Piloted Azure OpenAI to automate claim decisions — achieving 95% accuracy on non-complex claims.
- Supported AML compliance initiatives by mapping and transforming key risk data from EDW sources and designing secure, scalable ingestion pipelines in Azure Data Factory for downstream AML analysis.
- Developed policy renewal system with Python, SQL, Power Automate — improved retention & cross-sell conversions.

Data Analyst – Dauntless Discovery International (Feb 2024 – Sept 2024)

- Led daily eDiscovery efforts on over 100,000 rows of breached data, employing advanced ELT techniques with SQL and Excel to precisely identify PII and maintain compliance with privacy regulations.
- Consistently ranked as a top-tier analyst, placing in the top two of daily productivity charts among the team.

EDUCATION

Bachelor of Information Technology – James Cook University, Singapore (2021 – 2023)

- Graduated with Distinction (GPA 6.08/7)
- 1st Prize – JCUS Design Sprint | Top 15 Finalist – Splash Awards 2023
- Head of Logistics – Wallstreet Club

TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript, R
- **Data & AI:** PySpark, Azure OpenAI, PyTorch, TensorFlow, Scikit-Learn, OpenCV, pandas, NumPy
- **Cloud & Platforms:** Microsoft Fabric, Azure Data Factory, Azure ML, Azure Blob Storage, Databricks
- **Analytics & Visualization:** Power BI, Tableau, Excel
- **Full-Stack & Web:** Next.js, React, Three.js, FastAPI, Flask, Django, HTML/CSS
- **DevOps & Tools:** GitHub, Azure DevOps, Linux, Microsoft Entra SSO

PROJECT HIGHLIGHTS

- VisionX – Real-time AI for the Visually Impaired
 - Built a mobile accessibility solution with voice guidance, image recognition (Flask, TensorFlow, MongoDB).
- SignSense – Sign Language to Text & Speech Translator
 - AI-powered translator with avatar & social features to assist the hearing-impaired community.