

Yu-Fang (Roma) Fu

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MSc Business Analytics student with eight years of software engineering experience across data-intensive banking systems and web applications, now moving into data engineering through hands-on work with Python, SQL and ETL/ELT pipelines.

Education	
09/25 – 09/26	ALLIANCE MANCHESTER BUSINESS SCHOOL, Manchester, UK MSc Business Analytics: Operational Research and Risk Analysis • Dissertation (industry collaboration with The Wildlife Trusts): designing a Lakehouse architecture with Databricks, PySpark and Delta Lake — Medallion ETL/ELT pipelines integrating heterogeneous IoT sensor and geospatial datasets, with metadata catalogue, audit logging, MLflow tracking and data-quality dashboards. • Key modules: Python Programming for Business Analytics, Machine Learning for Business, Applied Statistics and Business Forecasting, and Mathematical Programming and Optimisation. • Applied Python and R to patent forecasting and segmentation for Ericsson, emergency department predictive modelling and optimisation, and an NHS inpatient pharmacy operations simulation.
09/08 – 06/12	NATIONAL TAIPEI UNIVERSITY, Taipei, Taiwan BSc Business Administration • Key modules: Statistics, Operations Research, Information Management, and Computer Programming.
Work Experience	
08/18 – 08/25	DIEBOLD NIXDORF, Taipei, Taiwan Software Engineer • Maintained the monitoring system ingesting event data from 2,000 ATMs; used SQL and database analysis with performance, load and stress testing to identify peak-hour constraints, improve data quality and strengthen capacity planning. • Developed and maintained web applications, servers and databases that surfaced processed machine event data to operations teams, improving system stability and event reporting. • Delivered the international Global Honour security (Windows EOS) project under tight deadlines, coordinating client, APAC security, software and hardware teams, with documentation supporting audit and reproducibility. • Led optimisation of the Taiwanese ATM front-end interface through usability analysis; design adopted nationwide.
02/17 – 07/18	BEYOND MEDIA GLOBAL LTD, Taipei, Taiwan Front-End Web Developer • Developed and maintained 15+ commercial web applications end to end (JavaScript, React, MySQL, AWS), covering domain setup, CMS deployment, API integration, SSL security and SEO. • Implemented core user-facing features — logins, payments and CRUD functions — collaborating with designers and developers via Git and Jira.
04/14 – 10/15	VETICA GROUP, Taipei, Taiwan Branding Specialist • Managed stakeholder communication across 10+ brand and product design projects, and built internal administrative systems with data visualisation to improve operational efficiency.
Projects	
01/26	• Decision Analytics Dashboard: built an interactive web dashboard applying optimisation models, statistical analysis and machine learning to support decision-making. GitHub: github.com/amor9121/decision-analytics-dashboard
Additional Skills	
Technical	Python (Pandas, NumPy, PySpark, Scikit-learn), SQL, R, Databricks, Delta Lake, MLflow, Power BI, Git, JavaScript, Java, AWS
Languages	English (Fluent); Chinese (Native); Spanish (Basic)
Certifications	Semiconductor AI and ChatGPT Applications (National Yang Ming Chiao Tung University); Python Programming (UC San Diego Extended Studies); Security System Integration (Diebold Nixdorf); Front-End Development (Institute for Information Industry)
Interests	Watching sports; learning new technologies; yoga and social dancing. Volunteer tutor in mathematics and English, including students with special needs.