

ANDREW STRANGE

PROFESSIONAL EXPERIENCE	TrueLayer, Senior Software Engineer July 2022 – September 2026 <i>Promoted from Software Engineer in 2024.</i> Developed and operated .NET services for open-banking connections, user identification and bank-account verification on AWS and Kubernetes. • Maintained and evolved TrueLayer's Authentication Server, a custom OAuth 2.0 service built on Duende IdentityServer. Moved authentication-session storage into a standalone service, removing other services' dependencies on the Authentication Server. Designed further simplification to reduce cross-product coupling. • Built the proof of concept and production path for a completed migration of over 10 million open-banking connection records from MartenDB to PostgreSQL, without disrupting existing clients. Designed the dual-write, backfill, validation, backup and cutover procedures. • Designed long-lived client access to bank connections, wrote the implementation plan and guided the team's delivery. Contributed to the design and implementation of the next-generation open-banking API across public HTTP and internal gRPC interfaces. • Investigated production failures and coordinated incident response across teams. Led the response to a cross-product authentication outage, traced the failure across service boundaries, coordinated recovery and ran a certificate audit adopted by other teams. • Integrated AI into daily development where appropriate, from code completion to agent-based implementation. Directed agents using specifications and worked examples to develop API clients and migration scripts; retained ownership of technical decisions, review and testing.
	FACEIT, Software Engineer February 2021 – June 2022 Developed and maintained backend Go and Java services supporting the online FACEIT platform and FACEIT application. Deployed using Docker and Kubernetes with CI/CD. • Designed and implemented a Go microservice extracting management of players' FACEIT Points from a legacy monolith. Implemented idempotent transaction and balance operations for internal and frontend APIs, and propagated changes asynchronously to dependent systems. • Implemented parts of the migration of FACEIT user information from a legacy service on an unsupported MongoDB version to a new independent service, including feature-parity work, endpoint migrations and switchover support.
	Cytora, Software Engineer November 2017 – January 2021 Developed backend Go microservices supporting product APIs and internal data-science workflows, deployed with Docker and Kubernetes across AWS and GCP. Led the design and development of an HTTP service cataloguing internal modelling datasets and their provenance. Earlier built Jupyter notebooks, Python and SQL data-transformation scripts and Airflow workflows to support machine-learning development; mentored a junior engineer.
	WhatsApp (Facebook), Software Engineering Intern 2014, 2015, 2016 Three separate internships: developed features for the WhatsApp Android application; developed an internal tool for searching and analysing application crash logs; developed an internal tool exposing customer-support ticket information to developers.
EDUCATION	University of Manchester, Physics, MSc 2016 – 2018 <i>Thesis:</i> Feasibility study on the use of Trigger-Object Level Analysis in the Search for the Standard Model Higgs boson produced by vector-boson fusion and decaying to bottom quarks with the ATLAS detector.
	Churchill College, University of Cambridge, Natural Sciences (Physical), BA(Hons) 2013 – 2016
TECHNICAL SKILLS	Languages: C#/.NET, Go, Java, Python, SQL. Systems: AWS, GCP, Docker, Kubernetes, PostgreSQL, MongoDB, DynamoDB, Redis, RabbitMQ. Engineering: HTTP/gRPC APIs, CI/CD, testing, observability, incident response, Claude Code.
INTERESTS	Photography, football, guitar, live music, squash, fiction, games