
PROFESSIONAL EXPERIENCE

Millennium Management, London

Data and Software Engineer

01/2022 – present

- Building quant tools and greenfield data platform for energy trading team at \$57bn+ hedge fund
- Developing back-end, front-end/dashboards, automated reports, ETL pipelines, web scrapers and monitoring systems (for applications, data, forecasts/models, servers, databases, etc.)
- *Technologies*: Python, Linux, Airflow, Datadog, Jenkins, SQL Server, AWS (Batch, S3)

Lyst, London

Senior Software Engineer

11/2020 – 01/2022

- Worked on a global, data and technology driven fashion platform with 160 million users
- Developed microservices, client libraries, data pipelines, webhook listeners, internal dashboards and moderation tools, and website features (focusing on SEO/organic growth)
- *Technologies*: Python (Django, FastAPI), Docker, CircleCI, Terraform, Snowflake, AWS (ECS, Glue, Athena, Step Functions, Batch, SQS/SNS, S3, RDS), PySpark, PostgreSQL, Redis, Grafana, Sentry, New Relic, Kibana

Lloyds Banking Group, London

Data and Software Engineer

04/2019 – 11/2020

- Worked on developing a cloud-native banking data platform on GCP from scratch
- Previously Data and Software Engineer for Machine Learning applications – developed data pipelines and Python monitoring package; delivered SE training for Data Science graduates
- *Certifications*: Google Cloud Certified – *Associate Cloud Engineer* (02/2020), Udacity Nanodegree – *Machine Learning Engineer* (06/2020)
- *Technologies*: Python, Protobuf, Jenkins, Docker, Terraform, Beam, PySpark, SQL, GCP (Pub/Sub, Dataflow, BigQuery, Spanner, Data Catalog)

IOTA Foundation, London/Berlin

Research and Development as part of M.Sc. Thesis

04/2018 – 09/2018

- Developed DLT *simulation framework* in Python, *published research* – awarded Distinction

EDUCATION

Imperial College London, UK

M.Sc. Computing Science, Distinction

09/2017 – 09/2018

- Intensive 12 months practical conversion M.Sc. program in Computer Science
- *Notable modules*: Software Engineering (75%), Machine Learning (76%), Network and Web Security (73%), Logic and AI Programming (75%), Algorithms, Databases
- *Thesis*: «A Multi-Agent Simulation Framework and Analysis of the IOTA Tangle» (final mark 83%, *research paper* accepted at *Symposium on Cryptocurrency Analysis 2018*)
- *Engineering group project*: Image Recognition using Deep Neural Networks with UK's largest online grocery retailer (81%) – technologies include Python, TensorFlow, Keras, flask

Maastricht University, NL

B.Sc. International Business, Cum Laude

09/2013 – 07/2016

- *GPA*: 8.8 out of 10 (top 3%), Finance major, *Beta Gamma Sigma* intern. honour society

The Hong Kong University of Science and Technology, HK

Exchange Semester

09/2015 – 12/2015

- Investment/Portfolio Analysis, Negotiations, Intro to Computing, Chinese Economic History

Burgau-Gymnasium, Düren, GER

Abitur/A-Levels

09/2004 – 06/2013

- Graduated *first in class with a GPA of 1.0* (equivalent to A*A*A*A*)

SKILLS & INTERESTS

Technologies

- See manuel.dev/tech

Languages

- German (*native*), English (*fluent*)

Interests and travels

- Football, electronic music/DJing, cooking
- Backpacking across developing economies: China, Taiwan, Vietnam, Philippines, Cuba, Myanmar, Laos, Thailand, Mexico, Belize and Colombia