

PROFESSIONAL EXPERIENCE

Lyst, London

Software Engineer, Web Growth

11/2020 – present

- Developing microservices, data pipelines and tools to drive organic growth for all domains
- *Technologies*: Python (Django, FastAPI), React, CircleCI, Docker, Terraform, Snowflake, AWS (Step Functions, Batch, SQS/SNS, S3), Grafana, Sentry, New Relic

Lloyds Banking Group, London

Data and Software Engineer, GCP

04/2018 – 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

Research and Development, M.Sc. Thesis

04/2018 – 09/2018

- Developed a *simulation framework* in Python and *published research* – awarded Distinction
- Collaborated with researchers of IOTA Foundation in Berlin and Tel Aviv in cooperation with Imperial College Centre for Cryptocurrency Research and Engineering and Outlier Ventures

GP Bullhound, Berlin

Technology Investment Banking Intern

03/2017 – 07/2017

- Global M&A boutique, direct collaboration with teams in London, Paris and San Francisco
- Worked with senior deal team on investment documents, financial models, valuations and offer analysis, management of data rooms, performing research and analysis (EU start-ups/VCs)

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

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 manzan.dev/tech

Languages

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

Interests and travels

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