#### Manuel Zander in ()

**Solution** ✓ contact@manuel-zander.com ✓ +44 075 432 925 09 ♣ Citizenship: GER ♥ London, UK

#### Professional Experience

#### Millennium Management, London

### Data and Software Engineer

01/2022 - 08/2023

- Lead engineer building greenfield data and analytics platform in \$1B+ energy trading team
- Focus on helping to forecast demand, renewable generation and market prices in EU power
- Developing back-end, front-end, quant tools, reports, web/api/file scrapers, ETL pipelines 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: Associate Cloud Engineer (02/2020) Udacity ML Engineer (06/2020)
- Technologies: Python, Protobuf, Jenkins, Docker, Terrafom, 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\* UK or 4.0 US)

### SKILLS & INTERESTS

**Technologies** 

• See manzan.dev/tech

Languages

- German (native), English (fluent)
- Football, electronic music/DJing, cooking Interests
  - Backpacking: China, Taiwan, Vietnam, Philippines, Cuba, Myanmar, Laos, Thailand, Mexico, Belize, Colombia, Montenegro, Guatemala, El Salvador, Nicaragua, Argentina, Brazil