

Leo Kravtchin

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EDUCATION

The University of Edinburgh

Master of Informatics with Honours in Computer Science

Sep. 2019 – May 2025

Edinburgh, United Kingdom

Dollar Academy

Scottish Higher: AAAAA in Computer Science, Maths, Physics, Biology, English

Aug. 2018 – May 2019

Dollar, United Kingdom

EXPERIENCE

Business Intelligence Engineer Intern

Amazon EU SARL

Dec. 2023 – May 2024

London, United Kingdom

- Developing data pipelines for automated analytics dashboards within the Supply Chain Execution department
- Building internal tools based on business requirements using Python, SQL, and AWS technologies
- Collaborating with internal stakeholders to develop the most suitable solution to business needs

Data Engineer Working Student

METRO Markets GmbH

June 2023 – Aug. 2023

Dusseldorf, Germany

- Provided automated data insights using Python, MySQL, Power BI, and Excel based on big data
- Set up new data pipelines running complex MySQL queries for performance analysis of internal systems
- Applied version control on production code using Git and applied Agile methodology within a large team
- Commended by software engineering team lead for being capable, organised, and inquisitive

Data Analyst Working Student

METRO Markets GmbH

June 2022 – Dec. 2022

Dusseldorf, Germany

- Produced data analysis and machine learning reports using Python and MySQL for internal teams
- First-response and post-mortem of incidents using MySQL on big data production databases
- Created an application providing hourly data insights, using JavaScript, MySQL, and Google Cloud Kubernetes
- Set up automated performance monitoring of the deployed application using Grafana and Slack alerts

PROJECTS

Snippet | *Python, Flask, React, PostgreSQL, MongoDB, Docker, Google Cloud, Jenkins, Git* Jan 2023 – Apr 2023

- Developed a full-stack web search engine for 10 million Spotify podcast transcript snippets in a team of six
- Implemented ranked information retrieval, semantic search, topic modelling, and query expansion in Python
- Used Docker and Google Cloud to deploy the application and connect to the databases
- Set up CI/CD on GitHub using Jenkins, automatically applying new changes to the shared repository

RecognisED | *Python, TensorFlow, Keras, Scikit-Learn, Java, Kotlin, Firebase, Git* Sep 2022 – Jan 2023

- A full-stack mobile app for real-time human activity recognition from wearable sensors in a team of three
- Used deep learning to achieve 94% classification accuracy of 14 different physical activities
- The app shows the classified activity, the step count, and stores historical data of each user using Firebase
- Received feedback and testing from an impartial group for continuous feature improvements

BSc Thesis | *Python, TensorFlow, Scikit-Learn, PM4PY, Prophet, NeuralProphet, Git* Sep 2022 – Apr 2023

- Human activity recognition over many years of sensor data, achieving an accuracy of 82% using deep learning
- Detected long-term activity deterioration using clustering, process mining, and activity forecasting
- Analysed external factors to correlate to daily behaviour patterns to eliminate bias and anomalies
- Collaborated with the university's AIML research group and supervised by senior researchers in this field

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL (MySQL, PostgreSQL, MongoDB, Apache Impala), Java, HTML, CSS

Frameworks: React, Node.js, Flask, REST APIs, JUnit, Prophet, NeuralProphet, OpenAI API

Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, Jenkins, pip, Conda, npm

Libraries: TensorFlow, Scikit-Learn, Keras, Pandas, NumPy, Matplotlib, Seaborn, PM4PY, NLTK, Gensim