

Marius Kornovan

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EDUCATION

IMPERIAL COLLEGE LONDON | MENG IN CHEMICAL ENGINEERING
Grade (UK Honours) - 2.1 | October 2018 - July 2022 | London, United Kingdom

EXPERIENCE

DATA ANALYST | ANKURA CONSULTING
October 2022 - May 2023 | London, United Kingdom

- Developed the ETL data pipeline for the analysis of **KYC & SWIFT** banking data for an **Anti-Terrorist Financing** Investigation of a major Asian Commercial **Bank**. Performed transformations on the structured transactional data using **Python and Spark**, carried out **Data Quality** analysis using **SQL Server**, and established streamline for migrating the data to RelativityOne review platform.
- Led **asset tracing** investigations for the **British Government** against **sanctioned Russian** individuals and **Gazprombank** by using Open Source Intelligence (**OSINT**) techniques, and sophisticated **financial/corporate investigative** tools. The intelligence provided will result in an **asset freeze** with a value exceeding **£100 million**
- Deployed **REST-APIs** to run bulk searches across Credit Bureaus (TracelQ), Data/Web Aggregators (Sayari, Spark), British Land Registry and other databases using **Python**. This has considerably increased the efficiency and speed of data extraction.
- Developed an advanced **Python** tool to carry out **fuzzy matching** and **confidentiality scrubbing** on sensitive customer data (libraries: fuzzywuzzy, os, pandas)
- Carried out transformations and **Data Quality** analysis on structured transactional data using **SQL**
- Spearheaded the development of an automatic tool for project management (PM) to seamlessly track progress on projects using **Excel** and **VBA macros**. The new tool improved the quality, producibility and consistency of project data recorded. The tool is now used across multiple departments

COMPLIANCE, FORENSICS AND INTELLIGENCE INTERN | CONTROL RISKS
June - December 2021 | London, United Kingdom

- Developed a new **data pipeline** for projects involving **financial, cyber, and legal investigations** by implementing a **Python automation algorithm**. The new standardised method of data handling saves several hours of processing time, which resulted in considerable **reduction of operating expenses**
- **Revealed patterns in the communication and interaction** between suspects in a **Bribery & Corruption Investigation** project for an international media company using Brainspace (AI software)
- **Provided technical support** answers during **client meetings/interviews**, and when necessary language support (Russian to English interpreter)

RESEARCHER | IMPERIAL COLLEGE LONDON
June 2020 - June 2021 | London, United Kingdom

- Leveraging the latest software from MathWorks, **launched** a new online MATLAB Grader™ course for our department. **Improved efficiency and learning experience** for first-year undergraduates by automating the delivery of assessments and the grading process. The **upgrade saves hundreds of hours** of marking every year
- **Developed and deployed** a new platform on WebWork to automate the delivery of assessments for the Advanced Mathematics course using **Perl & SQL**
- **Tested and refined UX & UI** in the new **augmented reality** Knowledge Laboratory to ensure a high standard of learning is maintained for remote students during the COVID-19 pandemic
- Collaborating in a team of 9, developed a framework for **decarbonising India's power** generation grid in line with the Paris Agreement. **GAMS** was used for the model optimisation. Evaluation considered the socioeconomic consequences, with particular attention paid to India's perception of emerging technologies

SKILLS & LANGUAGES

PROGRAMMING

• Python • MATLAB • Excel • SQL • PostgreSQL • ASPEN • gPROMS • Power BI • GAMS
• Spark • PyTorch • Scikit-learn • Azure Cloud • AWS • Linux Terminal

LANGUAGES

English (Fluent) • Spanish (B1-B2) • Russian (Native) • Romanian (Native)

VOLUNTEERING

 | MEDELLIN & BAHIA SOLANO, COLOMBIA | MAY - SEP 2023

• Participating in nature conservation and habitat restoration projects. Combating plastic waste and supporting local communities. Facilitated language exchange sessions, teaching English and practicing Spanish.