Ivan Evdokimov

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Experience

Software Engineer (remote), University of Essex — Colchester, UK Nov 2025 — Present

- Worked on several partnership contracts in for clients of various size and scale.
- Developed Android mobile application, with backend in C#, integrating Mistral AI Large Language Modelith data stored in Microsoft Power Platform Tables, automating the data collection and analysis for a switchgear company in Manchester.
- Designed CI/CD design for a mixed 'AI-generated + human-reviewed' code pipeline with automation of the DevOps tooling, increasing the product delivery for SaaS applications by a consulting company.

Software Engineer (part-time), UK Data Service — Colchester, UK Jan 2023 — Oct 2025

- Developed end-to-end Machine Learning classification systems in scikit-learn and PyTorch for automated metadata control deployed on AWS, with Docker to ensure security and scalability.
- Refactored the R code for statistical disclosure control algorithm to C++ adding bitmasks, therefore improving the runtime efficiency.
- Developed Python applications integrating locally hosted fine-tuned LLMs using Hugging Face Transformers, which automate the data processing and checking pipeline conducted by non-technical people.

Research Officer and Laboratory Assistant, University of Essex — Colchester, UK Oct 2021 — Dec 2022

- Applied statistical and Machine Learning regression models to solve theoretical macroeconomic problem.
- Developed a program to simulate macroeconomic processes, written in the C programming language for speed and scalability.
- Assisted in teaching C/C++, Data Structures & Algorithms, and Introductory Machine Learning modules at postgraduate level.

Analyst Intern, Beyond Borders Investment Strategies — Boston, MA, USA May 2020 — Sep 2020

- Performed quantitative analysis of exposure of international Exchange Traded Funds (ETFs) to currency and commodity prices fluctuations, using time-series analysis techniques.
- Proposed ideas for mitigation of currency risks via financial derivatives.
- Developed a Java application for parsing the pdf documents to the .csv format, using SpringBoot and JavaFX, automating previously manual process.

Projects

MTG: Cards Reader: ivan020.github.io/mtgFront/

- The Optical Character Recognition (OCR) project, which scans the photos of Magic the Gathering (MTG) cards and outputs the information about a card along with its most up-to-date price on the secondary market.
- The backend API is written in the Python and the C++ programming languages, using a PostgreSQL database and is hosted on the Raspberry Pi server.
- The frontend is written in the Javascipt with the use Vite framework.

BWA: Bayesian Weighted Model Averaging

- A wrapper around the scikit-learn and statsmodels Python packages to compute the weighted average of models, for time-series data forecasting.
- Uses the C programming language functions to optimize the runtime of the package.

Education

University of Essex, PhD in Computational Finance Oct 2021 — May 2025

- The project GitHub repo was forked by other open-source enthusiasts, used for further development of financial applications.

University of Essex, MSc in Financial Econometrics Oct 2020 — Sep 2021

- Developed a C++ application to simulate the behaviour of banks, households, and firms under dynamic and negative interest rates, based on the article from a scientific journal;