

# Ivan Evdokimov

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## Experience

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

- Designed and deployed end-to-end ML classification systems in scikit-learn and PyTorch on AWS, containerized with Docker for scalability and security.
- Refactored a legacy R statistical disclosure algorithm to C++, improving runtime efficiency by introducing bitmask-based data structures.
- Developed Python applications integrating fine-tuned LLMs with Hugging Face Transformers for automated metadata control.
- Contributed to React-based full-stack tools for internal data validation and monitoring pipelines.

**Research Officer and Laboratory Assistant**, University of Essex — Colchester, UK Sep 2022 — Dec 2022

- Applied ML regression and statistical models to macroeconomic forecasting challenges.
- Built high-performance C simulations for economic process modeling, improving scalability and reproducibility.
- Assisted in teaching C/C++, Data Structures Algorithms, and Introductory Machine Learning, mentoring MSc and PhD students.

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

- Conducted quantitative analysis of ETF exposure to currency and commodity price risk using time-series models.
- Built a SpringBoot/JavaFX application to automate financial document parsing from PDF to CSV.
- Proposed risk mitigation strategies leveraging statistical analysis.

## Education

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**University of Essex, School of Computer Science and Electronic Engineering,** Oct 2021 — May 2025  
PhD in Computer Science

- Developed a Transfer Learning-based Bayesian Averaging framework for financial forecasting, with open-source adoption.
- Published peer-reviewed AI/ML papers and led workshops on Linux, Dev Tooling, and Software Engineering Principles.
- Mentored peers in GANs, Reinforcement Learning, and Genetic Programming research projects.

**University of Essex, School of Economics,** MSc in Econometrics Oct 2020 — Sep 2021

- Built C-based macroeconomic simulations containerized with Docker for reproducible experiments.

## Technical Skills

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**Languages:** Python, C/C++, Java, JavaScript.

**Frameworks:** PyTorch, scikit-learn, Hugging Face Transformers, React, Docker, AWS, Git, CI/CD.

**Practices:** Agile Development, Test-Driven Development, Cloud Deployment, Infrastructure Automation.