Mihhail Sorokin

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EDUCATION

MEng Mathematics and Computer Science — Oct 2020 – Jul 2024 (exp.)
Imperial College London — *London, England*
- First Class Honours (expected and on-track)
- President's Undergraduate Scholarship
- Relevant modules: Deep Learning, Maths for Machine Learning, Computational Finance

A-levels — Sep 2018 – Jul 2020
Canford School — *Dorset, England*
- A*A*A*A*A* : Maths, Further Maths, Computer Science, Economics, Physics
- Academic Scholarship

EXPERIENCE

Quantitative Developer Intern — Apr 2023 – Sep 2023
Squarepoint Capital — *London, England*
- Increased adoption of an internal service by investigating and remedying existing users' pain points
- Load tested service to analyse performance issues caused by improper Knative scaling, leading to a doubling of the stable request throughput
- Used time series forecasting methods to predict periods of increased system load

Undergraduate Teaching Assistant — Oct 2021 – Mar 2024
Imperial College London — *London, England*
- Tutored a group of first-year students, including feedback, marking, and running programming tutorials
- Assisted first-year Computing students with 1 on 1 on-demand help during supervised lab sessions

Software Developer — Jul 2021 – Oct 2021
Defence Logic — *St. Helier, Jersey*
- Developed a client-server application with forensic logging to manage registered hosts via a remote server
- Created a server which supported concurrent communication via gRPC and immutable blockchain logging

PROJECTS

Miscellaneous Machine Learning Models | *Python, PyTorch* — Oct 2023 – May 2024
- Implemented various models from scratch as part of university modules
- Linear regression, decision tree, U-Net, VAE, GAN, Gaussian process, diffusion

Extreme Startup | *Python, Flask, JavaScript, MongoDB, Docker* — Oct 2022 – Dec 2022
- Full-stack web app game used to teach beginner software developers about TDD, CI/CD, and agile methods
- Used in Deutsche Bank, Carnegie Mellon University, Imperial College London

MmmmBoxes | *Python, Flask, JavaScript, PostgreSQL* — Mar 2022 – Jun 2022
- Full-stack web app to assist concierges with mail management in shared accommodation
- OCR parcel label scanning, automated and customisable reminder emails, with a focus on human-centered design

WACC | *Kotlin* — Jan 2022 – Mar 2022
- Compiler for a static, strongly-typed language including stack/heap memory allocation, user input, and functions

Pintos | *C* — Oct 2021 – Nov 2021
- Extension to an educational x86 OS, featuring scheduler thread synchronisation and user space programs

ARM11 Assembler and Emulator | *C* — May 2021 – Jun 2021
- Assembler and emulator, supporting a subset of the ARM11 instruction set

TECHNICAL SKILLS & OTHER

Languages: Python (NumPy, PyTorch)
Developer Tools: Git, GNU/Linux, Docker
Familiar With: Kubernetes, Knative, Elastic Stack, Grafana, MongoDB, PostgreSQL, GitLab CI
Spoken Languages: English (native), Russian (native), German (basic)
Interests: chess, motorcycling, snowboarding