

Vasiliy Batmaev



Objective:

Data Scientist & Full-Stack Engineer. Quantum Computing & Astrophysics.

Open to relocation and remote work.

Education:

2018–2022: B.Sc., Applied Mathematics & Physics, with distinction (highest honors).

MIPT (leading Russian STEM university, QS-ranked globally in Physics & Astronomy).

Thesis: Solving the Traveling Salesman Problem on a quantum computer.

2022–2024: M.Sc., Scientific Software – MIPT. Thesis: Bayesian analysis of variable-star data.

2024–2027: PhD (in progress), Computer Science & Informatics.

Dissertation: Biometric authentication on untrusted devices via eye-movement dynamics.

Awards:

1st place in national student competition “Yandex-Professional”
in quantum technologies, and 3rd place in innovative healthcare.

Experience:

Telecommunications Research Center, MIPT – Python library for a robotic platform. Built control and data-visualization tooling. Used quaternions, UDP, multithreading, plotly / dash, pandas.

Vependo VPN – migration to iOS. Used Kotlin Multiplatform, Swift, iOS Network Extension.

Mixim (startup) – UI for smart beverage vending machines.

Used Electron, TypeScript, HTML/CSS, Svelte 5.

Projects:

Privacy-first dating service for queer students (1000+ users).

Employed Telegram API, Docker, Traefik, SQLite, HTML/JS/CSS.

Skills:

Daily: Python, TypeScript

Also: Julia, Haskell, C/C++, Wolfram Mathematica, PyTorch, SQL, Docker, git, LaTeX

Design: Affinity Designer, Photoshop

English: Upper-Intermediate

Conference papers:

Forest segmentation on satellite images using neural networks and mutual-information maximization – A. Matseiko, V. Batmaev, I. Kharuk, E. Fedotova // Conference “Current Problems in Remote Sensing of the Earth from Space”, Space Research Institute (Russia), 2023.

Dynamic biometrics from eye movements: trust on untrusted devices – V. Batmaev // MIPT Conference, 2025

t.me/batmaev

vbbatmaev@gmail.com

github.com/batmaev