

# ALEKSEJ BARYSNIKOV

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## EDUCATION

### King's College London

Data Science, MSc

London, United Kingdom

September 2025 - September 2026

- Relevant Modules: Machine Learning, Computer Vision, Big Data Technologies, Agents and Multi-Agent Systems, Database and Data Warehousing
- Predicted Grade: 1st Class

### Queen Mary University of London

Computer Science with Management, BSc

London, United Kingdom

September 2022 - June 2025

- Relevant Modules: Database Systems, Web Programming, Security Engineering, Distributed Systems, Software Engineering, Object Oriented Programming
- Grade: 1st Class degree

## EXPERIENCE

### Co-Principal

at King's Labs - King's Business Club

London, United Kingdom

10/2025 - Present

- Designed and delivered scalable software solutions for diverse client projects.
- Managed projects and client communication to ensure timely delivery.
- Mentored junior developers in system design and engineering best practices.

### Frontend Developer

at Dustid

London, United Kingdom

03/2025 - 08/2025

- Led project to migrate web app from Vue JS 2 to Vue JS 3 (composition API)
- Assisted in implementing a Shopfy integration using React JS
- Worked using the SCRUM Agile methodology to achieve rapid iteration between projects

## PROJECTS

### API Analytics Platform

SaaS

React, Express, Node JS, PostgreSQL, Cloudflare, RabbitMQ, Docker

- Developed an API analytics platform that enabled developers to track real-time API insights, improving observability and debugging efficiency.
- Built an interactive dashboard with Recharts, delivering clear and actionable data visualizations for technical and business users.
- Engineered and deployed message queues with RabbitMQ, increasing system scalability and reliability under high-traffic conditions.

### In-Memory Database

Personal Project

Golang, Linux

- Built a lightweight Redis-compatible key-value store in Go with custom TCP server and RESP protocol handling.
- Implemented core datastore features like command parsing, request handling, and persistence logic.
- Enabled interoperability with redis-cli by replicating key Redis commands

### Med-Portal

Freelance Project

Golang, Gin, React, Typescript, PostgreSQL, GORM

- Developed a backend REST API to facilitate CRUD operations
- Engineered an Auth system with JWTs and robust middleware to achieve RBAC
- Implemented project using TDD with go-mock, testify and go-mocksql libraries resulting in a reduction of errors

## TECHNICAL SKILLS

Languages: Javascript, Typescript, Golang, Python, SQL

Frameworks: React JS, Vue JS, Node JS, SpringBoot, Express, Django

Technologies: Docker, RabbitMQ, Git, Tailwind CSS, NoSQL