

Anton Lykov

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EDUCATION

University of Washington, Seattle

M.S. + PhD in Computer Science

Seattle, WA

Jan 2021 – Current

- GPA: 3.9/4.0. Interests: large scale ML, probability theory, data management. Advisor: [Dan Suciu](#).

University of California, Los Angeles

B.S. in Computer Science, B.S in Mathematics

Los Angeles, CA

Sept 2016 – June 2020

- GPA: 3.87/4.00, Magna Cum Laude, Dean's Honors List 10/12 quarters

Rel. coursework: ML for Big Data, Data Mining, Statistical Model, Distributed Systems, Probability Theory

SELECTED WORK EXPERIENCE

RelationalAI

R&D Intern

Berkeley, CA

Summer 2022

- Integrating a query compiler featuring a unique worst-case optimal join algorithm into main DB engine

Amazon Web Services, Redshift

Software Engineering Intern

East Palo Alto, CA

Summer 2021

- Worked in [Redshift](#) Serverless team. Optimizer cluster auto scaling algorithm configuration.
- Suggested a parameter tuning approach that led to significant reduction of \$ cost & query response time.

NAND Capital

Research & Development Intern

San Francisco, CA

Fall 2020

- Information theory HFT hedge fund. I was the 6th employee in the company.
- Researched & implemented options pricing models (Black-Scholes, variations of the Binomial)

Amazon Web Services, Redshift

Software Engineering Intern

East Palo Alto, CA

Summer 2020

- Part of early [Redshift ML project](#), allowing users to train/use ML models using SQL (launched 2021).
- Integrated [SageMaker](#) inside Redshift to perform ML inference. My POC is now used in production.

Yandex

Software Engineering Intern

Moscow, Russia

Summer 2019

- Optimized performance of internal networking modules related to establishing secure connections.
- Improved behavior of HTTP client Web Module for push-notification services.

Jet Propulsion Lab & B John Garrick Institute for Risk Sciences

Research & Development Intern

Los Angeles, CA

Jan 2018 – Dec 2018

- Developed an engine that performs Probability Risk Assessment for complex systems (C++, Python)

SELECTED AWARDS

- Our paper [On the Tractability of SHAP Explanations](#) won AAAI Distinguished Paper Award at AAAI 2021: **top 0.2%** of all submissions. (2021)
- ACM ICPC: **8th place** on [ICPC South California Regionals](#), top 3 teams at UCLA. (2019)
- Frank Peters **Scholarship for Engineering** Recipient at UCLA Samueli Engineering (2019)
- **1st place**: California Capture the Flag – Cybersecurity hackathon (2018)
- **Top 10 of 75+ teams**: DataFest – Data Science & Machine Learning hackathon (2018)
- **Finalist (3 times)**: National Russian Olympiad in Mathematics (2014, 2015, 2016)
- **1st place**: International Tournament of Towns Olympiad in Mathematics (2015)

TEACHING & LEADERSHIP

UCLA Olga Radko Endowed [Math Circle](#)

Lead Instructor

Los Angeles, CA

Oct 2016 – June 2020

- Lead 20+ high school students; 150+ hours of teaching total; prepared students for math Olympiads