

# Anton Lykov

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

B.S COMPUTER SCIENCE

B.S MATHEMATICS

Expected June 2020

Los Angeles, CA

GPA: 3.86 / 4.0

DEAN'S HONORS LIST

## COURSEWORK

### UNDERGRADUATE

Computer Architecture

Operating Systems

Software Engineering

Algorithms & Data Structures

Probability

Linear Algebra

### GRADUATE

Quantum Programming

Computational Complexity

Machine Learning

Data Mining

Real & Complex Analysis

Abstract Algebra

## SKILLS

### PROGRAMMING

Python • C/C++

LaTeX • Swift • HTML/CSS

### TECHNOLOGIES

Git • Docker • Bash • Unix

### LANGUAGES

English Fluent

Russian Native

Italian Conversational

## LINKS

Github: [anton5798](#)

LinkedIn: [anton-lykov](#)

Facebook: [Anton Lykov](#)

## WORK EXPERIENCE

### RISK SCIENCES INSTITUTE, JPL | RESEARCHER & SOFTWARE DEVELOPER

Feb 2018 - Dec 2018 | Los Angeles, CA

- Wrapped C++ frameworks in Python using Cython
- Wrote C++ parsers for Open-PSA MEF Fault Trees and Event Trees
- Used Django & Django REST to build a web app

### SBERBANK | SOFTWARE ENGINEERING INTERN

Jul 2017 - Aug 2017 | Moscow, Russia

- Wrote an iOS application using ARKit to render objects in augmented reality
- Integrated QR-code scanning into the augmented reality session
- The only freshman among primarily senior or masters interns

### LA MATH CIRCLE | LEAD INSTRUCTOR

Oct 2016 - Current | Los Angeles, CA

- Lead a group of 20+ high school students
- 150+ hours teaching total
- Lecture every week, prepare students for olympiads and other competitions
- Teach students to solve complex mathematical problems

## RESEARCH

### STAR AI, UCLA Feb 2019 - Current | Los Angeles, CA

- Propose a new Weighted Model Counting technique
- Work on representation of probabilistic programming languages
- Study properties of Bayesian Networks and Arithmetic Circuits

## PROJECTS

### SPYDER | SOFTWARE ENGINEERING

Jan 2019 - Current | Los Angeles, CA

- Built a fast C++ web-based meme-generator supporting reverse-proxy, user authentication etc.
- Used Docker, CMake, GoogleCloud platform, Gerrit code reviews system

### DEVX UCLA | SENIOR MOBILE DEVELOPER

Oct 2017 - Sep 2018 | Los Angeles, CA

- Designed an iOS application that shows current level of activity in libraries
- Used Alamofire for HTTP-requests, GooglePlaces, Floaty
- Merged data from check-ins, historical information, location services to better estimate level of activity

## AWARDS

1st place: California Capture the Flag	2019
Top 10 of 75 teams: DataFest	2019
National Russian Math Olympiad Finalist	2016/15/14
Intl. Tournament of Towns Absolute Winner	2016