

Misha Ivkov

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EDUCATION

Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

- Undergraduate studying Computer Science Aug 2017 – May 2021 (Expected)
- GPA: 3.80/4.0
- Algorithms and Complexity Concentration
- Mathematical Sciences Minor

RESEARCH EXPERIENCE

Research on SoS, Carnegie Mellon University Theory Group

Jan 2020 – Present

- Faster Algorithms for Mixed Linear Regression (in progress)
- Working with Professor Pravesh K. Kothari.

PROJECTS

TartanHacks

- Lega-lies (Won Best Privacy Hack) Feb 2019
 - Created a Chrome extension which summarizes EULAs using NLTK.
- Social Scrubber (Won Best Security Hack) Feb 2020
 - Created a Chrome extension which alerts you if you may be revealing PII on Facebook.

LEADERSHIP EXPERIENCE

SCS4All

Nov 2019 – Present

- Co-head of Mentoring Program
 - Run mentoring program between current CMU SCS students and new first years (events, matching)
 - Help plan and run general SCS4All events

Carnegie Mellon Informatics and Mathematics Competition

Dec 2017 – May 2020

- Co-President
 - Head of Logistics: Coordinate and lead events and logistics on competition day
 - Write problems for a 400-student high school math competition

ACM@CMU

Aug 2018 – Aug 2019

- Vice President
 - Helped organize events for CMU students through ACM
 - hackCMU (beginner hackathon), AWAP (Algorithms with a Purpose), HackBerry Pi (hardware hackathon)

WORK EXPERIENCE

Dropbox, Remote

May 2020 – Aug 2020

- Software Engineering Intern – Storage Platform Team
 - Wrote a distributed log uploader in Golang for internal task runner logs spread across multiple hosts.

MongoDB, New York, New York, USA

May 2019 – Aug 2019

- Software Engineering Intern – Query Team
 - Worked in (and learned) C++ on speeding up query execution and unifying execution pipelines.

Dremio Corporation, Santa Clara, California, USA

May 2018 – Aug 2018

- Software Engineering Intern – Acceleration Team
 - Added compaction feature in Java to speed up product and fixed customer critical issues.

Software Engineering Intern - UI

Jun 2017 – Aug 2017

- Developed product notebook integration in JavaScript from beginning to end for POC.

MapR Data Technologies, San Jose, California, USA

Jun 2016 – Aug 2016

- Software Engineering Intern – QA
 - Created 16x more efficient streaming benchmark software for testing purposes in Java.

TEACHING EXPERIENCE

Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

- 98-174 (Great Ideas in Tech Interviews & Coding Screens) Co-Instructor Aug 2020 – Present
 - Teaching (incl. designing all materials) for a student taught crash course on techniques which are useful for coding interviews.
- 15-259 (Probability and Computing) Teaching Assistant Jan 2019 – May 2020
 - Wrote up and led recitations & review sessions, graded written work, and held office hours. Spring 2020 Head TA.
- 15-251 (Theoretical Computer Science) Teaching Assistant Aug 2018 – Present
 - Led recitations, graded written work, and held office hours. Fall 2020 Head TA.
- 15-122 (Imperative Computation) Teaching Assistant Jan 2018 – May 2018
 - Taught labs and graded written work to ensure 400 student class ran smoothly.

ACHIEVEMENTS

- VTRMC Top 20 (2017)
- Putnam Top 200 (2018), Top 500 (2017, 2019)

RELEVANT COURSEWORK

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| <ul style="list-style-type: none">Theory A (All Graduate Level)<ul style="list-style-type: none">A Theorist's Toolkit* Advanced AlgorithmsFPT Algorithms* The Sum of Squares Model | <ul style="list-style-type: none">Theory B & Machine Learning<ul style="list-style-type: none">Machine Learning (Graduate)Bug Catching and Automated Program VerificationPrinciples of Programming LanguagesCompiler Design |
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LANGUAGES

- English: Native Language.
- Russian: Native Language.
- Mandarin: Basic proficiency.

SKILLS

L^AT_EX, Mathematica, Python, Java, C, C++, Go, Shell Scripting, Drill SQL, MongoDB.

INTERESTS

Competition math, competitive programming, water polo, volleyball, cybersecurity, piano.