

Komron Aripov

komron.me · komron@brown.edu · linkedin.com/in/komron · github.com/karipov

EDUCATION

Brown University

B.Sc. in Computer Science, Major GPA: 4.00/4.00

Providence, RI

Expected Graduation: May 2025

- Courses: Statistical Inference, Linear Algebra, Multivariable Calculus, Computer Systems, Computer Vision, Abstract Algebra, Programming Languages, Differential Equations, Software Exploitation.

SOFTWARE ENGINEERING EXPERIENCE

International Labor Organization

Software Developer Intern

Tashkent, Uzbekistan

Summer 2020

- Used an async python framework and finite state machines to develop a telegram chat bot, easing access to state regulations for improved reporting and monitoring of forced adult and child labor cases.
- Collaborated with ILO translators to include relevant documentation in multiple languages.
- Configured the backend infrastructure through docker containers; resulted in the bot handling over 200K users during its advertisement over national TV and other official channels.

PROJECTS

See full list of projects on komron.me

Drone Photogrammetry · School of Engineering Grant

tinyurl.com/drone-photogram

Embedded Electronics, Raspberry Pi, Computer Vision

- Worked with peer to create a proof-of-concept and bill of materials to construct a drone; received a \$1000 grant from the School of Engineering.
- Implemented a visual SLAM algorithm in OpenCV to localize the drone and area around it.

Genetic Salesman · Evolutionary Algorithms

tinyurl.com/genetic-salesman

Numpy, Python, Jupyter Labs, Matplotlib

- Implemented a genetic algorithm to solve the traveling salesman problem.
- Wrote an overview paper discussing NP-Hardness, sampling with bias and parameter tuning.

LEADERSHIP

International Mentoring Program

Mentor

Brown University

Summer 2022

- Facilitated the 3-day International Orientation program for over 350 incoming students at Brown through full-day activities, information sessions and team-building games.
- Held a workshop on financial well-being, including help with university scholarships and the US credit score system.

Accelerated Introduction to Computer Science

Teacher's Assistant

Brown University

Fall 2022

- Lead weekly lab sections on topics such as Big-O, SQL, Git, Queues and Trees to a group of over 30 students.
- Guided student understanding of in-class material and homework through weekly one-on-one office hours.

Brown Drone Club

Project & Public Relations Manager

Brown University

Fall 2022

- Co-founded the Brown Drone Club, established club budget, homepage and communications.
- Collaborated with over 30 club members to refine aerial vehicle project proposals and receive funding from the university.

SKILLS

- **Programming Languages:** Python, C/C++, JavaScript, Rust, Pyret, Racket
- **Technologies:** OpenCV, MongoDB, Numpy, Pandas, React, Prism, Tailwind, REST, Docker
- **Languages:** Fluent in English, Russian, Persian, proficient in French