

EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, GA

Aug 2020 - May 2024

- GPA: 3.8 / 4.0
- Concentrations: Artificial Intelligence and Smart Devices
- Relevant coursework: Data Structures and Algorithms, Systems and Networks, Machine Learning, Computer Vision, Robotics and Perception, Object-Oriented Programming, Probability and Statistics, Discrete Mathematics, Linear Algebra, Mechanics, Electromagnetism, Macroeconomics

EXPERIENCE

College of Computing, Georgia Tech

Undergraduate Researcher

Atlanta, GA

Aug 2021 - Present

- Work on the GTSfM (Structure from Motion) project advised by *Dr. Frank Dellaert*
- Design and build a web application in React JS to graphically and dynamically visualize the SfM algorithm
- Develop back-end systems to automate and improve GTSfM process graph generation
- Researched long short-term memory (LSTM) networks to predict the dynamics of *AutoRally*

Meta

Software Engineer Intern

Menlo Park, CA

May 2022 - July 2022

- Built end-to-end personalized generators for the Facebook Group Reels distribution
- Developed a user interest based Group Video generator for the Facebook Watch Tab
- Implemented an originality controlled Group Video generator for In-Feed Recommendations

HiLearn

Research Engineer

Yerevan, Armenia

Feb 2021 - Aug 2021

- Helped develop AI automated financial advising application
- Researched machine learning models for long term market (stocks, bonds, funds) simulation
- Created Jupyter notebooks to investigate and compare different portfolio management techniques
- Developed APIs to integrate research results in production using Flask

PROJECTS

Mobile Application for Hikers

Individual Project advised by Dr. Frank Dellaert

Aug 2021 - May 2022

- Built a mobile application in React Native to make hiking activities safer and more engaging
- Designed the user interface utilizing Figma
- Researched and implemented a position-tracking and distance-measuring algorithm

Object Detection Web Application

Individual Project

Nov 2020 - Feb 2021

- Trained an SSD neural network model to detect objects using TensorFlow Object Detection API
- Processed the images using OpenCV and NumPy
- Designed and created the back-end of the web application in Flask to demonstrate the model in real-time

SKILLS

- **Technical** - Python, Java, JavaScript, React Native, Hack, C++, C, SQL, Firebase, Mercurial, Git, Linux
- **Languages** - Armenian (Native), English (Fluent), Russian (Intermediate-Upper), Spanish (Intermediate)

HONORS AND AWARDS

- Faculty Honors - Fall 2021, Spring 2021, Georgia Institute of Technology
- Dean's List - Fall 2020, Spring 2022, Fall 2022, Georgia Institute of Technology
- Prize Winner - Team Blitz-Contest of the 4th Olympiad of Metropolises, Moscow 2019
- 2nd prize - International Youth Olympiad in Mathematics (a.k.a. Global Scholarship Competition), Higher School of Economics, Moscow 2018