

Aziza Ergasheva

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EDUCATION

University of Virginia
School of Engineering and Applied Sciences

B.S. Computer Science

GPA: 3.9

Related Coursework: Advanced Software Development, Data Structures and Algorithms II, Software Development Essentials, Data Structures and Algorithm 1, Intro. to Machine Learning, Computer Systems and Organization 1, Discrete Mathematics, Linear Algebra

Charlottesville, VA
Expected Graduation, May 2026

WORK EXPERIENCE

University of Virginia

Teacher Assistant: Introductory Computer Science

- Hold office hours weekly to students who seek help related to the course
- Proctor exams, weekly labs, and assist grading programming assignments
- Lead biweekly labs to review and practice concepts from class to over 50 students

University of Virginia

Resident Assistant

- Strive to promote a welcoming and inclusive environment for a group of 20 residents
- Organize programs to foster community engagement and personal/academic development

Solving Problems with Data Science at Virginia Tech

Data Science Researcher

- Built an automated pipeline using Nikon Elements specialized in segmenting mitotic cells and detecting/grouping specific organelles (ex. centrioles) to individual cells
- Achieved 93% accuracy on centriole counts
- Learned to use lab equipment such as a confocal microscope for data collection
- Communicated research findings at a research symposium (ex. abstract, poster)

MAFCO Worldwide LLC

Data Analyst Intern

- Analyzed import export data and created interactive dashboards and reports in Excel
- Analyzed inventory usage and developed set of restocking points in ERP system

PROJECTS AND LEADERSHIP EXPERIENCE

Project Code

Backend/AWS

- Working in a cloud infrastructure team to deploy and store the data of our app designed to provide real-time object detection and audio/text descriptions for the visually impaired

Mechatronics and Robotics Society (MARS)

Computer/Electrical Team member

- Working in a computer/electrical team of 20 to help build a robot that will participate at NASA's mining challenge
- Researched the use of LIDAR and simulated LIDAR functionality in Gazebo

Classification Neural Networks

- Implemented a neural network in Python by following along with the book
- Gained familiarity with the concepts utilized in machine learning and their software implementation using python and NumPy
- Modified the network to work on popular sample data sets like Iris flower and handwritten digit dataset

Duckietown MOOC

- Exploring technology behind self-driving cars following along with the online course
- Gaining hands on experience with robotic platform that runs on ROS and Python

SKILLS

Programming: Python, Java, Javascript, C, HTML, CSS, React, Next Js, SQL

Technical/Programmatic: Data Structures and Algorithms, Microsoft Excel, Intro. Machine Learning

Languages: English, Spanish, Russian, Uzbek