



Mariami Mamageishvili

Date of birth: 21/09/2003

Nationality: Georgian

Gender: Female

CONTACT

📍 Dia-Chianeli, N31
4600 ქუთაისი, Georgia
(Home)

✉ mamageishvilimari123@gmail.com

☎ (+995) 598489960

🌐 <https://linkedin.com/in/mariami-mamageishvili-358997229>

ABOUT ME

As an undergraduate student in Mathematics with a minor in Computer Science, I possess a strong drive and motivation to excel in my academic pursuits. I am particularly drawn to the practical applications of mathematics in real-world scenarios. I have developed a diverse skill set that enables me to approach challenges with analytical thinking and problem-solving strategies. Driven by my curiosity, I am continuously seeking to deepen my understanding of both theoretical and practical aspects of mathematics and AI. I am an avid learner, always open to exploring new methodologies and technologies.

WORK EXPERIENCE

01/05/2023 – CURRENT ქუთაისი, Georgia

● **Student Assistant of Numerical Analysis** Kutaisi International University

Each week helping fellow students understand topics explained by professor in Numerical Analysis.

15/09/2023 – CURRENT Kutaisi, Georgia

● **Student Assistant of Numerical Linear Algebra** Kutaisi International University

I assist other students in understanding and doing well in this math subject. I explain things, organize study sessions, and help solve problems.

08/07/2024 – 13/09/2024 Tbilisi, Georgia

● **Data Engineering Intern** Bank Of Georgia

In my experience as a Data Engineering Intern, I have designed and maintained **ETL pipelines** using Apache tools and frameworks like **Apache Spark** for large-scale data transformation, and implemented **HDFS** for distributed storage solutions. I have managed and optimized **Postgres databases**, ensuring the performance of complex **SQL queries**, while maintaining **data integrity** through validation, cleansing, and deduplication processes. I have also been responsible for **managing Hadoop clusters**, fine-tuning performance, and automating workflows with **Apache Airflow**.

26/08/2024 – CURRENT remote, United States

● **Software Engineer** Cisco

As a Software Engineer at Cisco, I work primarily with **C++** and occasionally **Python** to develop products that leverage **numerical methods** for complex computations. My role involves designing and implementing algorithms that solve mathematical problems, ensuring efficiency and accuracy in processing large-scale data. I collaborate with cross-functional teams to integrate these solutions into larger systems, ensuring that the numerical methods meet performance and scalability requirements within the products we deliver.

LANGUAGE SKILLS

MOTHER TONGUE(S): Georgian

Other language(s):

English

Listening C1

Reading C1

Writing C1

Spoken production B2

Spoken interaction B2

Russian

Listening B1

Spoken production B1

Reading B1

Spoken interaction B1

Writing B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

python | Java | oCaml | Javascript | React Native | C# | .Net, .Net Core, .Net Framework | MATLAB, R, c++, SQL, Python (tensorflow) user level | Numpy, pandas, matplotlib, Tensorflow | Big Data: Hadoop, Spark, Impala, Hive, Hue... | Apache AirFlow | Databases (MySQL, PostgreSQL, Oracle)

PROJECTS

10/05/2022 – 10/11/2022

Champion of the Visual Math Festival

As winners of Kutaisi International University's Visual Math Festival, my team and I delved into hyperbolic geometry. Our goal was to present this complex subject in a more accessible way. Over six months, we used software tools like Blender and Houdini to create an educational video, and Unity to turn our findings into an immersive simulation game. Players could experience the unique properties of hyperbolic geometry firsthand by navigating distorted landscapes and manipulating geometric objects.

21/10/2023 – 22/10/2023

Winner of StartUps competition called "Citython"

My teammates and I had the privilege of winning a startup competition known as "Citython", which spanned over two days. Our concept focused on creating a platform that links tourists with local hosts, aiming to provide more authentic travel experiences. We are thrilled about our victory and are committed to transforming our website into a reality, with the goal of facilitating meaningful connections between travelers and hosts. In this project, my responsibility was to develop a website named "Kutaiseli Maspindzeli", where I utilized my scripting skills, particularly in React.

EDUCATION AND TRAINING

CURRENT Georgia

Beneficiary of Woman in AI Business and Technology University

This training program covers artificial intelligence, starting with a course in linear algebra and progressing to data science. Currently, I am focusing on studying machine learning algorithms and data engineering.

Field of study Data science

CURRENT Georgia

Trainee at Back-End programming, c#,ASP.NET IT academy step

Course covers first of all OOP, then SQL and finally creating applications with ASP.NET.

Website doit.gov.ge | **Field of study** Back-End Programming

HOBBIES AND INTERESTS

Python

Python has been my go-to programming language since my first year of university. I have practised my skills by working on a variety of projects, such as K-means clustering, speed detection, and image processing using

NumPy, Matlab, and Pandas. I am enthusiastic about applying my mathematical skills to programming and aim to advance further as a Python developer.

HONOURS AND AWARDS

05/08/2020

● **Winner of national olympiad "M vector" in Mathematics**

M Vector, which is a national competition in math and problem-solving, gave students a chance to show their skills. I was proud to win after solving tough math problems and puzzles that tested my analytical and logical reasoning.

MANAGEMENT AND LEADERSHIP SKILLS

● **participant in Fintech**

My management and leadership skills were demonstrated when I successfully secured a position in the Financial Technologies camp following a competitive selection process. During my time at the camp, I immersed myself in learning about the commercialization of innovations. This experience provided me with valuable insights into how these technologies revolutionize and streamline the delivery and utilization of financial services. Taking an active role, I not only acquired in-depth knowledge but also effectively managed tasks, collaborated with team members, and demonstrated leadership qualities to ensure the camp's objectives were met efficiently.

ORGANISATIONAL SKILLS

● **Gita's startup summer school participant**

Through my active participation, I not only gained valuable knowledge about startups but also honed my innovative thinking, pitching, concept presentation, and product-making abilities. This experience allowed me to effectively manage tasks, coordinate with team members, and ensure the smooth execution of various activities throughout the program.

VOLUNTEERING

17/08/2022 – 25/08/2022 Georgia

● **Guide at international astrophysics Olympiad**

In 2022, Kutaisi International University hosted an international astrophysics Olympiad. I was chosen as a guide for the foreign participants, helping them adjust to the new surroundings and providing essential support throughout the event. I also organized informative sessions and briefings to share insights about the university, local customs, and cultural aspects. Acting as a reliable point of contact, I aimed to create a welcoming atmosphere and ensure the participants felt supported in their exploration of the new environment.

11/04/2024 – 17/04/2024 Georgia

● **Guide at European Girls' Mathematical Olympiad**

In 2024, the Georgian town of Wyaltubo had the honor of hosting the European Girls' Mathematical Olympiad, during which I had the privilege of serving as a guide for the Ukrainian girls and assisting them with their needs. It was a valuable cultural and educational experience, and I am grateful for the opportunity to have been able to support them.

Link <https://www.youtube.com/@EGMO2024>