

ANASTASIYA MASALAVA

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science | Artificial Intelligence and Information Networks

Atlanta, GA

August 2021 - May 2025

- GPA: 3.93 / 4.0.

EXPERIENCE

Software Engineer Intern

Amazon

Seattle, WA

August 2024 - November 2024

- Developed dynamic consumer feedback reports using LLM-based keyphrase extraction, k-means clustering, and aspect labeling to enhance data analysis.
- Created an algorithm to identify emerging trends and patterns in consumer feedback, integrating trend charts into the Percept UI for improved visualization.

Machine Learning Engineer Intern

Doordash

San Francisco, CA

May 2024 - August 2024

- Developed and implemented a Vision Transformer algorithm to detect fraudulent behavior by identifying similarities between customers' refund images, reducing company costs by \$0.6M annually.
- Deployed the algorithm in production using Kotlin, optimizing its performance on the ML platform.

Software Engineer Intern

Amazon

Seattle, WA

May 2023 - August 2023

- Built a novel ReactJS website using AWS technologies for manual data labeling and deployed it through a CDK pipeline.
- Developed an Image Classification model utilizing AutoGluon technology and achieved a 93% accuracy by hyperparameter tuning and data augmentation.

Computer Vision Researcher

Georgia Institute of Technology

Atlanta, GA

December 2023 - Present

- Building a natural disaster damage score assessment algorithm using Contrastive Language-Image Pre-Training (CLIP).
- Designing and evaluating an alternative approach using text CNN and Inception V3 image models with feature fusion.

Senior Teaching Assistant

Georgia Institute of Technology

Atlanta, GA

January 2022 - May 2024

- Supervised a team of 6 Teaching Assistants to deliver exam and lab material for a 900+ student class.
- Led labs for 50 students on sequential and combinational logic, LC3 computer architecture, Assembly, and C language.

PROJECTS

LLM-based Health Application | TreeHacks Stanford Hackathon Prize Winner

- Fine-tuned a Llama LLM model by Meta on health data to answer questions about diseases and health conditions.
- Utilized the OpenAI Whisper model to convert a voice question to a text prompt and the Bark text-to-audio model to produce a verbal response.

Computer Vision Night Driving Application | UC Berkeley AI Hackathon

- Implemented Hume AI's Expression Measurement model to monitor facial expressions during night driving for drowsiness detection, and integrated the Empathic Voice model to create a human-like voice assistant, enhancing driver safety.

Machine Learning Music Recommendation Application | HackGT Georgia Tech Hackathon

- Created a React application that utilizes the Emotion Recognition Model by Luxand Cloud for detecting a person's mood by photo and suggesting the top 5 Spotify songs based on emotions using Spotify APIs.

SKILLS

- Technical Skills:** Python, Java, Kotlin, Scala, C/C++, Assembly, JavaScript, PyTorch, TensorFlow, TypeScript, SQL, APIs.
- Tools & Frameworks:** Git, AWS, Python Flask, Java Spring MVC, React, Android Studio, Docker, CircuitSim.
- Languages:** English, Belarusian, German, Spanish.