

# Umid Suleymanov

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## Professional Experience

<b>Data Science Intern, Amazon (AWS Proactive Security)</b>	May 2025 – Aug 2025
<ul style="list-style-type: none"><li>Developed statistical and ML models and performed analysis to process large-scale security data.</li><li>Built ETL pipelines, dashboards, and metrics to deliver actionable insights using Python, SQL, and AWS tools.</li></ul>	
<b>Graduate Research Assistant, Virginia Tech</b>	Aug 2024 – Present
<ul style="list-style-type: none"><li>Published research on semi-supervised few-shot learning for Network Intrusion Detection.</li><li>Developed policy-grounded RAG-based agentic defenses for detecting and mitigating LLM jailbreak attacks.</li><li>Conducting research on LLM privacy leakage, including membership inference, memorization analysis, and agent-based reflective defenses.</li></ul>	
<b>Leading Data Scientist, E-Gov Development Center</b>	Jun 2022 – Jan 2023
<ul style="list-style-type: none"><li>Led the development of end-to-end ML pipelines, integrating predictive models into production.</li><li>Improved a sentiment analysis model using 164M-token word embeddings, enhancing accuracy by 4%.</li><li>Created Elasticsearch text analyzers, increasing click-through rates by 6%.</li></ul>	
<b>Senior Data Scientist, E-Gov Development Center</b>	Nov 2019 – Jun 2022
<ul style="list-style-type: none"><li>Built an anonymization model using NER, improving process speed by 32%.</li><li>Developed predictive models, reducing queue related complaints by 16%.</li></ul>	

## Education

<b>Virginia Tech</b> , Virginia, USA PhD in Computer Science , ( <i>GPA: 4.0</i> )	2024 – 2028 (Expected)
<b>Khazar University</b> , Baku, Azerbaijan Master of Science in Computer Science, <i>First Class Honors</i> ( <i>GPA: 4.0</i> )	2019 – 2021
<b>ADA University</b> , Baku, Azerbaijan Bachelor of Science in Computer Science, <i>Cum Laude</i> ( <i>GPA: 3.72</i> )	2013 – 2018

## Latest Publications

- SIGMA: Search-Augmented On-Demand Knowledge Integration for Agentic Mathematical Reasoning. *AAAI*, 2025.
- SSPNet: Semi-Supervised Prototypical Networks for Few-Shot Network Intrusion Detection. *IEEE MILCOM*, 2025.
- Deep Unlearning of Breast Cancer Histopathological Images. *IEEE AICT*, 2024.
- Contextualized Word Embeddings for Azerbaijani. *IEEE AICT*, 2024.

## Technical Skills

- TensorFlow, PyTorch, Keras, Transformers, vLLM
- Spark, BigQuery, AWS S3/SageMaker, ETL pipelines
- Supervised & unsupervised learning
- Few-shot & semi-supervised learning, NLP, LLMs
- Matplotlib, Seaborn, Plotly, Dash, Tableau, Power BI
- Docker, Git, version control, CI/CD basics

## Honors & Achievements

- Finalist at International Data Analysis Olympiad
- TensorFlow Developer Certificate
- First Place, AzInTelecom Hackathon
- Instructor at 30 Days of ML — Kaggle, Google (2021)
- 8+ peer-reviewed papers in AI/ML
- Honorable Mention, ACM ICPC Contest