


# Goktug Ekinci

✉ gekinci@umassd.edu     Google Scholar

 GoktugEk     goktugekinci

## Education

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**Doctor of Philosophy - Applied Sciences, Computer and Information Sciences**      2024 - Present  
University of Massachusetts Dartmouth      Dartmouth, Massachusetts  
GPA: 4.0/4.0

**Bachelor of Engineering - Computer Engineering**      2018 - 2023  
Middle East Technical University      Ankara, Turkey

## Work Experience

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**University of Massachusetts Dartmouth - Cybersecurity Center**      Dartmouth, USA  
*Research/Teaching Assistant*      Jan 2024 - Present  
Working on intrusion detection, AI for cybersecurity, and database security under Dr. Gokhan Kul.

**Aviterra**      Ankara, Turkey  
*Software/ML Lead*      Jul 2023 - Feb 2024  
Worked on autonomous object tracking/chasing drone project.  
(Python, PyTorch, OpenCV, Siamese Neural Networks, Jetson)

**Kod House - Wise Works**      Ankara, Turkey (Remote)  
*Full Stack/AI Engineer*      Jun 2023 - Nov 2023  
Developed Wise Works online meeting AI assistant project.  
(MongoDB, Python, Typescript, Vue.js, Whisper, WhisperX, Ffmpeg)

**Middle East Technical University**      Ankara, Turkey  
*Undergraduate Researcher (under Dr. Pelin Angin)*      Sep 2022 - Dec 2023  
Implemented multiple intrusion detection systems for empirical evaluation.  
(Python, Weka, IDS, Cybersecurity, System Calls, Network Flow)

**Startup Heroes**      Istanbul, Turkey (Remote)  
*Part-Time Software Engineer*      Oct 2021 - Jul 2023  
Worked in the search team on backend search architecture.  
(Java, Docker, Maxwell, Apache Kafka, BigQuery, Spring, Elasticsearch)

**Sarama**      San Francisco, USA (Remote)  
*Machine Learning Engineer*      Jul 2022 - Oct 2022  
Worked on dog-human AI communication and audio dataset creation.  
(Python, AWS Lambda, S3, EC2)

**University of Maryland - Maryland Cybersecurity Center (MC2)**      Maryland, USA (Remote)  
*Machine Learning Research Intern*      Jul 2021 - Oct 2021  
Worked on Lockstep Detection using machine learning.

**JotForm**      Ankara, Turkey  
*Data Science Intern*      Aug 2020 - Sep 2020  
Created background images using GANs and built a widget recommendation system.  
(Python, GAN, Recommendation Systems)

**Middle East Technical University**      Ankara, Turkey  
*Undergraduate Researcher*      Jan 2020 - Jun 2021  
Contributed to ML projects like Covid-19 Pattern Recognition, Retweet Prediction, and CTR Prediction.  
(Python, Tensorflow, PyTorch, Pandas, NumPy)

## Community Service, Awards & Projects

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**Google Developer Student Club (METU)**      Ankara, Turkey  
*Community Lead*      Aug 2020 - Oct 2021

**IEEE METU**      Ankara, Turkey  
*Chairperson of Self-Development and Education Committee*      Apr 2019 - May 2020

**NCAE Cybergames 2025**  
- Ranked 4th Best Team

UMass Dartmouth

**Next-Generation Document Builder (NGDB)**

Senior Project / Developer

Ankara, Turkey  
Sep 2022 - Present

Developed a document creation tool similar to LaTeX and Google Docs. Worked on dynamic form creation and data transformation.

Ranked **2nd Best Project** at METU CENG DemoDay.

**Privacy Preserving Shazam**

Privacy-preserving song-recognition project

Remote  
Mar – Aug 2025

Implemented a fully homomorphic encryption version of a Shazam-style system as part of the Zama AI Bounty Program.

(Python, Jupyter Notebook, Homomorphic Encryption, FHE, Audio Signal Processing)

GitHub

**Skills**

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**Programming:** Python, C++, Java, SQL, MATLAB

**Machine Learning:** PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas

**Cybersecurity:** Intrusion Detection, Threat Analysis, Cryptography, Blockchain, Ledger Systems

**Tools & Platforms:** AWS, Docker, Git, Linux, Jupyter, MongoDB

**Other:** LaTeX, React, REST APIs, Data Visualization

**Publications**

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**Replay or Regret: Evaluating Continual Learning Methods for Robust Intrusion Detection** Los Angeles, CA, USA  
IEEE Military Communications Conference (IEEE MILCOM) 2025

N. Costagliola, G. Ekinici, N. D. Bastain, L. Fiondella, G. Kul

**Adaptive Network Intrusion Detection Systems Against Performance Degradation via Model Agnostic Meta-Learning** Salt Lake City, UT, USA

ACM Conference on Computer and Communications Security (CCS),

11th ACM Workshop on Adaptive and Autonomous Cyber Defense (AACD 2024)

G. Ekinici, A. Broggi, L. Fiondella, N. Bastian, G. Kul

**An Empirical Analysis of IDS Approaches in Container Security**

Vienna, Austria

International Workshop on Reliable and Secure Microservices and Containers (SRMC) (2022)

Y. Sever, G. Ekinici, A. Dogan, B. Alparslan, S. Gurbuz, V. Jabriyalov, P. Angin

**(Best Paper Award at SRMC 22')**

**Investigating the Preprocessing Methods in ECG Analysis**

Istanbul, Turkey

2021 29th Signal Processing and Communications Applications Conference (SIU)

G. Ekinici, H. Guvenkaya, E. Kardes, P. Karagoz