# Ali Ayati

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College Station, TX

## Education

- **Texas A&M University** *January 2023 – Present*
  *PhD in Computer Engineering (3.60/4.00): Thesis Advisor Prof. Dr. Marcus Botacin* College Station, TX
  **Thesis:** Access Control Is All You Need
- **Iran University of Science and Technology** *September 2017 - February 2022*
  *B.S. in Computer Engineering (3.50/4.00): Thesis Advisor Dr. Saeed Parsa* Tehran, IR
  **Thesis:** CodART: An Automated Refactoring System (https://github.com/m-zakeri/CodART)

## Publications

PR=Peer-Reviewed,

* Major Contribution

**P.R.[1]** *__Seyyed Ali Ayati__, Jin Hyun Park, Yichen Cai, Marcus Botacin (2025). **Making Acoustic Side-Channel Attacks on Noisy Keyboards Viable with LLM-Assisted Spectrograms' "Typo" Correction** In *The 19th USENIX WOOT Conference on Offensive Technologies (WOOT '25)* – https://github.com/Botacin-s-Lab/EchoCrypt

## Teaching Assistant Experience

**Texas A&M University**: CSCE 410/611-411 (Summer 2025, Summer 2024), CSCE 413 (Spring 2025), CSCE 482/483 (Fall 2024, Spring 2024)

**Iran University of Science and Technology**: Logic Circuits (Fall 2021), Compiler Design (Spring 2021, Fall 2020)

## Research and Work Experience

**Research Assistant** *January 2024 - Present*
*Botacin's Lab, Texas A&M University (College Station, TX)*

- Developed a real-time Endpoint Detection and Response (EDR) system for Windows by designing and implementing kernel-mode drivers to monitor system activities at the kernel level.
- Applied graph algorithms to analyze system behaviors, identifying potential security threats based on deviations from established access control policies.

**Back End Engineer** *January 2022 - December 2022*
*SynApps, Remote*

- Developed and maintained RESTful APIs using Django REST Framework, with comprehensive unit and integration tests.
- Designed and implemented CI/CD pipelines using GitLab CI to automate testing and deployment workflows.

**Back End Engineer (Internship)** *Nov 2019 - May 2020*
*PishroNet, Remote*

- Developed a real-time dashboard using Django and Django REST Framework to monitor hardware sensor data (e.g., temperature, voltage), with automated responses triggered by critical readings.
- Built CI/CD pipelines and integrated Django signals with background tasks to automate testing, deployment, and hardware-triggered actions.

## Certifications

- **GitHub Foundations** – Issued by GitHub (Credentials: dfa3484e-ab86-4bda-84da-173c6b37d452)
- **Data Parallelism: How to Train Deep Learning Models on Multiple GPUs** – Issued by NVIDIA (Credentials: 438cdf74cd0c427cbccbbec604822469)
- **Fundamentals of Accelerated Data Science** – Issued by NVIDIA (Credentials: pVK2Ck4OQEiVGgbVnyZvAg)
- **GRAD Aggies Professional Development Certificate** – Issued by Graduate and Professional School at Texas A&M University (Credentials: 8SUspTJzQGiCs1PJ4tIaOQ)