Seyyed Ali Ayati

+1-979-344-9829 | ali.a@tamu.edu | https://ali-ayati.com

in @seyyedaliayati | seyyedaliayati | SA Ayati

College Station, Texas, USA

EDUCATION

- **Texas A&M University** *January 2023 – Present*
  PhD in Computer Engineering (3.50/4.00): Thesis Advisor Dr. Marcus Botcin College Station, USA
  Thesis: Access Control Is All You Need

- **Iran University of Science and Techonology** *September 2017 - Feburary 2022*
  B.S. in Computer Engineering (3.50/4.00): Thesis Advisor Dr. Saeed Parsa Tehran, Iran
  Thesis: CodART: An Automated Refactoring System (https://www.m-zakeri.ir/CodART/about/)

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).*

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)

TA EXPERIENCE

- **Texas A&M University**

  CSCE 410/611-411 (Summer 2025, Dr. Wenhui Chu), CSCE 413 (Spring 2025, Dr. Marcus Botacin), CSCE 482/483 (Fall 2024, Dr. Philip Ritchey), CSCE 410/611 (Summer 2024, Dr. David Kebo), CSCE 482/483 (Spring 2024, Dr. Paul Taele)

- **Iran University of Science and Technology**

  Logic Circuits (Fall 2021, Dr. Hosseini Monazzah), Compiler Design (Spring 2021, Dr. Saeed Parsa), Compiler Design (Fall 2020, Dr. Saeed Parsa)

RESEARCH AND WORK EXPERIENCE

Research Assistant *January 2024 - Present*
Botacin's Lab, Texas A&M University
- 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.

Software Engineer *January 2022 - December 2022*
SynApps, Tehran, Iran
- Developed and maintained RESTful APIs using Django REST Framework.
- Implemented CI/CD pipelines using GitLab CI which automated testing and deployment processes.
- Implemented comprehensive testing strategies, including unit and integration tests.

Software Engineer (Internship) *Nov 2019 - May 2020*
Pishro Net Energy, Tehran, Iran
- Developed a real-time dashboard using Django and Django REST Framework to monitor and visualize sensor data, including temperature and voltage, collected from hardware devices.
- Designed and integrated automated workflows using Django signals and background tasks to trigger actions based on specific sensor readings (e.g., activating a cooling system if temperature exceeds 74°F).
- Contributed to the implementation of CI/CD pipelines, automating testing and deployment processes to enhance development efficiency.