

# Garett Fox

5/5/2025



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## PROFESSIONAL SUMMARY

Programmer, researcher, educator, and game designer who has published four games, two courses, two research papers, and four websites. Over thirty completed projects, including twenty as project lead or primary contributor.

## SKILLS

- Computer Programming (Python, C, C++, C#, Java, PHP)
- Cybersecurity Planning, Policy, Compliance, and Education
- Network Security (Packet Analysis, Firewalls, SDN)
- Linux and Windows Scripting and Automation (Bourne Shell, Bash Shell, PowerShell)
- Machine Learning, Deep Learning, and Artificial Intelligence (Tensorflow+Keras, Scikit-Learn)
- Data ETL, Analysis, and Visualization (Pandas, Numpy, Matplotlib, MATLAB)
- Cloud and Virtualization (VMware, ESXi, vSphere, Virtualbox, GCP, AWS, OCI)
- Common Development Tools (Microsoft Office Suite, Git, Docker)
- Game Development (GameMaker, Unity, Unreal)
- Web Design, Development, and Administration (HTML, CSS, JavaScript)

## EXPERIENCE

### Full-Stack Developer

April 2025 – Present

- Updated official website to include new information
- Added new features to homepage and navigation menu
- Resolved issues with display of images

[We Do Listen Foundation](#)

### Programming Specialist

April 2024 – Present

- Reviewing LLM output for accuracy and usability
- Wrote prompts imitating real-world use cases
- Wrote ideal responses to real-world prompts

[Outlier by Scale AI](#)

### Ph.D Candidate and Research Assistant

August 2017 – December 2025

- Researching novel frontline DDoS/network attack mitigation techniques
- Worked on two other grants relating to cyber security education and research
- Collaborated with fellow doctoral students to mutually benefit our research efforts

[UTSA Computer Science Department](#)

### Technical Support Specialist

January 2017 – September 2018

- Rapid response on-site technical support
- Expedited hardware setup
- Resolved issues with crucial computer infrastructure

[Advanced Surgery Center of San Antonio](#)

### Technical Staff Assistant II

June 2014 – August 2017

- Published four educational games (CTD and the CyberPatriot ESCEI 1.0 suite)
- Contributed to NCCDC 2015 and 2016
- Managed official websites of CIAS and NCPC
- Work led to three registered trademarks

[Center for Infrastructure Assurance and Security](#)

### Volunteer Player Moderator

October 2009 – July 2010

- Moderated player interactions in-game and on official forums
- Responded to player support tickets
- Planned and operated in-game seasonal events
- Assisted QA team with debugging

[Sparkplay Media](#)

## EDUCATION

University of Texas at San Antonio

December 2025

Doctor of Philosophy in Computer Science

University of Texas at San Antonio

December 2023

Master of Science in Computer Science

Student Organizations: UTSA Spectrum (Secretary, Co-President)

University of Texas at San Antonio

May 2015

Bachelor of Science in Biology

Student Organizations: UTSA Spectrum, Game Dev Group

Claudia Taylor Johnson High School

May 2009

AP Scholar, Texas Scholar, Departmental Award - Library

## PUBLICATIONS

Fox, Garrett, and Rajendra V. Boppa. 2022. "**Detection of Malicious Network Flows with Low Preprocessing Overhead**" *Network* 2, no. 4: 628-642. <https://doi.org/10.3390/network2040036>

Fox, Garrett, and Rajendra V. Boppa. 2023. "**On Early Detection of Anomalous Network Flows**" *IEEE Access*, vol. 11: 68588 - 68603. <https://doi.org/10.1109/ACCESS.2023.3291686>

## AWARDS

UTSA Innovation Award

The University of Texas at San Antonio

December 5, 2018; April 27, 2022; November 16, 2022

In recognition of Innovation Excellence for contributions leading to registered trademarks for both physical and digital versions of educational trading card game Cyber Threat Defender, and for CyBear, the "Smokey the Bear" of cybersecurity.

## GRANTS

Texas National Security Network Excellence Fund

Texas National Security Network

August 2017 – July 2018

Working under Dr. Gregory White and in conjunction with the CIAS to generate a labeled dataset of network traffic captures from NCCDC 2018.