

Segla Boladji Vinny Trinite Adjibi

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Google Scholar: <https://scholar.google.com/citations?user=Hqz6d7AAAAAJ>

Summary

Senior PhD student focused on developing tools to prevent, detect, and mitigate domain name abuse, with a broader goal of disrupting malicious online activity. Experienced across diverse industries, bringing a practical, impact-driven approach to system design and threat mitigation. Eager to contribute technical expertise and research skills to an industry internship focused on building advanced fraud and threat detection systems.

Education

Georgia Institute of Technology | Atlanta, GA

Aug 2022 – Present

PhD in Computer Engineering, GPA 3.85/4.00

Anticipated Graduation: May 2027

- *Relevant Coursework:* Network Security, Advanced Topics in Malware Analysis, Exploiting Smart Contracts and DeFi, Advanced Computer Security

Carnegie Mellon University | Pittsburgh, PA

Aug 2019 – May 2021

Master of Science in Information Technology, GPA 3.80/4.00

- *Relevant Coursework:* Hands-On Ethical Hacking, Introduction to Machine Learning for Engineers, Vulnerability Assessment and Penetration Testing, Computational Forensics and AI

University of Abomey-Calavi | Cotonou, Benin

Oct 2015 – July 2018

Bachelor of Science in Computer Science

Skills

Programming: Python, Bash, Java, C++, JavaScript, PHP, Lisp, C, Ruby, Go, Scala, R, MATLAB

Data Retrieval: SQL, Google Big Query, Redis, Apache Spark

Data Analysis & Machine Learning: Pandas, NumPy, SciPy, scikit-learn, PyTorch, TensorFlow, Hugging Face

System Administration: Docker, Kubernetes, Helm

Threat hunting: Metasploit, IDA-Pro, Wireshark, Nmap

Languages: French (native)

Professional Certifications

LLM Engineering: Master AI, Large Language Models & Agents

Oct 2025

Introduction to on-device AI | DeepLearning.AI

Oct 2025

Stanford Advanced Cybersecurity Program | Stanford University

Aug 2022

Certified Ethical Hacker v10 | EC-Council

July 2020

Microsoft Certified: Azure Fundamentals | Microsoft

May 2020

Peer-Reviewed Publications

Adjibi et al., “Repairing Trust in Domain Name Disputes Practices: Insights from a Quarter-Century’s Worth of Squabbles”

(to appear) *The Network and Distributed System Security (NDSS) Symposium 2026*

- Trained named entity recognition models to programmatically extract information from over 90 thousand web documents
- Designed and ran experiments to a dispute mechanism’s performance and provide actionable insights for better results

Avgeditis et al., “From Concealment to Exposure: Understanding the Lifecycle and Infrastructure of APT Domains”

(to appear) *The 28th International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2025)*

- Analyzed a longitudinal dataset of APT domains, and generated visualizations to communicate relevant findings

Mbodji et al., “ContractTrace: Retracing Smart Contract Versions for Security Analyses”

(to appear) *Cybersecurity4D2025*

- Developed a conservative methodology to track code changes in Ethereum smart contracts for detailed security analyses

Adjibi et al., “The Guardians of Name Street: Studying the Defensive Registration Practices of the Fortune 500”

The Network and Distributed System Security (NDSS) Symposium 2025

- Curated multiple datasets and designed a conservative methodology for domain ownership attribution
- Reverse engineered the decision-making processes of five industry-leading companies using logistic regression models

Adjibi et al., “The Devil is in the Details: Unwrapping the Cryptojacking Malware Ecosystem on Android”

IEEE 22nd International Working Conference on Source Code Analysis and Manipulation (SCAM)

- Conducted static and dynamic analyses of 346 Android apps covertly mining cryptocurrencies despite Google’s policies
- Assessed the performance of three Antivirus solutions in detecting those malicious mining activities

Professional Experience

- Georgia Institute of Technology**, Atlanta, GA Aug 2022 – Present
Graduate Research Assistant
- Trained natural language processing models to gather information from over 90 thousand documents in under 4 hours
 - Developed a tool to strategically collect threat intelligence from open and closed sources, reducing API costs by 20%
- University of Luxembourg**, Luxembourg City, Luxembourg Jan 2022 – July 2022
Research and Development Specialist
- Updated a static analysis pipeline to statically analyze Android apps at scale, reducing processing time by over 90%
 - Devised a novel methodology to track changes to smart contracts' source code using publicly available data
- CyLab Africa**, Kigali, Rwanda June 2021 – Dec 2021
Research Assistant
- Built an Android application to collect a dataset of handwritten words from users in over 5 countries
 - Developed a self-healing network toolkit for software defined networks (SDN)
- Oltranz Ltd.**, Kigali, Rwanda Nov 2020 – Apr 2021
Junior Cloud Architect
- Updated the existing deployment pipeline, leading to 30% faster deployments
 - Engineered Helm charts to streamline application deployments and guarantee a least-privilege security architecture
- Robotics Lab, Carnegie Mellon University Africa**, Kigali, Rwanda May 2020 – Aug 2020
Research Intern
- Developed a fully functional robotic arm simulator used for five years to teach a graduate level class in robotics
 - Documented the creation and utilization of the simulator, helping students easily familiarize with its functionality
- JMA Plus SARL**, Cotonou, Benin Sep 2018 – June 2019
Full stack Developer
- Developed custom WordPress extensions to fulfill complex customers' requirements, saving +\$500 in subscription fees
 - Overhauled database querying strategies, improving application performance by 60%
- Huawei Technologies Benin SA**, Cotonou, Benin July 2016 – Sep 2017
Network Operations Center Engineer
- Developed an automated log parser with JavaScript, making incident reporting 75% faster
 - Built a Python script to automate the generation of a weekly report, cutting the processing time by 95%

Projects

- Online Learning with Python (OLPy) | Main Developer** Nov 2020 – Feb 2021
Developed a Python package implementing 17 different online machine learning algorithms
- Created the package by adopting industry standards, attracting over 7,000 unique downloads in 4 years
- XOR Decipher | Main Developer** Mar 2019 – Mar 2019
Developed a Python tool to decrypt XOR-encrypted messages using English letter frequency analysis
- Sped up the resolution of Capture the Flag (CTF) challenges by up to 90%.

Leadership and Community Engagement

- Techmasters (Georgia Tech's local chapter of Toastmasters International)** May 2024 – Present
Vice-President of Education
- Revamped the club's mentorship program which helped new members to deliver their first speech much faster
 - Coached members on using the educational resources, leading to a five-fold increase in curriculum level completion
- Software Engineering and Cybersecurity Club** Jan 2020 – Dec 2020
President
- Spearheaded the organization of the first on-campus Google Hash Code party attended by over ten teams
 - Collaborated on a successful application to host the first local "Django Girls" event in Kigali