GOD'SALVATION FECHUKWU OGUIBE

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Dept. of Computer Science, University of Texas, San Antonio

EDUCATION

University of Texas San Antonio, College of Engineering   San Antonio, TX
Ph.D., Computer Science   Expected August 2025
   Research Interests: Cloud Security, Cyber Security, IOT Security
   Awards: Department of Computer Science Full Tuition Award (Jan 2022 – 2025)
   Relevant Coursework: Algorithms and Data Structures, Computer Architecture, Information Infrastructure
   Protection, Computer Compilers, Network Security, Artificial Intelligence

Texas Southern University, School of Engineering   Houston, TX
Master of Science in Computer Science   December 2021
   Award: Scholarly Excellence Award (TSU)
   Relevant Coursework: Software Engineering, Computer Networks, Data Structures, and Algorithm
   Independent Study Research: Cyber security and Cryptocurrency: Securing Bitcoin Wallet

University of Jos, School of Natural Science   Jos, Nigeria
Bachelor of Science in Computer Science   June 2017
   Thesis: Optimization of Plastic Card Fraud Prevention through the integration of MFA- One-Time-Password
   Advisor: Dr. Sule MaryJane, Dr. Benjamin Ben

AWARDS & SCHOLARSHIPS & HONORS

Department of Computer Science Scholarship, University of Texas San Antonio	2022 – Present
The Gamma Beta Phi Society Honor, University of Texas at San Antonio	2022
Emergency Student Scholarship, Texas Southern University, Houston	2021
Office of Research, LEAP-Grant, Texas Southern University, Houston	2021
Helen Giddings Grant, Texas Southern University	2021
Scholarly Excellence Award, Texas Southern University	2021
Research Excellence Ambassador Award, Texas Southern University	2021
Appreciation of Service Award, Student Academic Success Center, Texas Southern University	2021
Albert Schweitzer Fellowship Nominee, Houston-Galveston	2021
Thurgood Marshall College Fund	2021
Helen Giddings Grant, Texas Southern University	2020

WORKS IN PROGRESS

- "Dogs, Cyber Security, and Cyber Crime: a perfect aid to law enforcement".; Abstract submitted to International Conference on Cyber Warfare, 2022. **(Accepted)**
- "Turnstile gate: From the eye of Cybersecurity.": Work in Progress, 2022
- "Cybersecurity: Risk of Internet Exposure on Kids". **Paper Submitted** to International Journal of Computer Science Trends and Technology.

PRESENTATION

"Energy-Aware Adaptive Checkpointing in Embedded Real-Time Security Systems; University of Texas San, Antonio

"COVID-19 Contact Tracing: Using Machine Learning Approach." Texas Southern University, August 2021**;** LEAP Symposium 2021

"Cybersecurity and Cryptocurrency." Texas Southern University, Houston, United States. May 2021**;**

"Optimization of Plastic Card Fraud Prevention Using One-Time-Password", University of Jos, Nigeria 2016

INIVITED REVIEW & CRITIC

- Mobile Payment Platforms: Taxonomy, Architecture, Security, and Integration with Blockchain, by Samuel Pierre; Paper Review Initiative, May 2022
- PC Surveillance and Monitoring Software System**, by Worlanyo Adom;** Paper Review Initiative, April 2022
- Online Social Networks in Kenya: Evolving Threats, Risks and Countermeasures , by Obed Nyangena; Paper Review Initiative, April 2022
- Improving Data Reduction for Cloud Storage using Digital Entropy, by Sorin Faibish; **Academia.edu** Paper Review Initiative, February 2022
- Metaverse in the financial industry: For 'better' or 'verse', by Priya Saivasan; **Academia.edu** Paper Review Initiative, January 2022
- A Swift Look at the Iranian Cyber Program, by Ali Ghani**;, Academia.edu;** Paper Review Initiative, December 2021
- Communicating Cybersecurity with the board and executive management, by Samir Pawaskar; **Academia.edu** Paper Review Initiative, December 2021
- Information Warfare, by Ahmed AL Zaidy; **Academia.edu** Paper Review Initiative, December 2021

TEACHING AND MENTORING EXPERIENCE

University of Texas San Antonio   San Antonio, TX
Graduate Teaching Assistant, Department of Computer Science   August 2022 – Present
- Course conducting of one graduate and undergraduate level class: CS 5443 – UX, size 58; CS 5153/4393 – Database Management with size 33.
- Held regular office hours to enhance explanation, discussion and assimilation of course materials.
- Assist principal professors with recording assignments and in the development of task feedback
- Delivering guest lectures

Graduate Teaching Assistant, Department of Computer Science   June 2022 – August 2022
- Taught Programming JAVA (CS 2124) , a class of (73) students. Class offered during the 2022 summer semester under Dr. Mauricio Gomez Morale
- *Assisted students understand the course material*: Included but is not limited to answering questions of students during office hours. Guided students to think, form, and test different approaches to solving various coding projects.
- *Provided feedback on course and task model:* Enhanced pedagogy through he use of instructional technology.
- *Held office hours*: dedicated 5hours a week for office hours on slack. During this time, students are free to ask questions and seek academic guidance related to CS 1083 course.
- *Grading and Grade transfer*: Academic task were turned in using several medium; blackboard, Zybooks or live exercise. Graded Exams (1,2, and Final), Projects (1 &2), Exercises, and WLAs.
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Graduate Teaching Assistant, Recitation Instructor, Department of Computer Science   Jan 2022– May 2022
- **Courses conducted**: CS 2124 (Data Structures). Facilitated two sessions (73 and 54 students) on an intensive course offered during the Fall, 2022.
- Led recitation for students. Helped students cross-fertilize ideas in an unstructured way to help them gain sufficient knowledge of the course material
- Addressed questions of students and assist them to go through the feedback provided.
- Explained challenging concepts with the consolidation of provided feedback for sophomore students.

*Graduate Ambassador, **Texas Southern University***   June 2021- August 2021
- Mentored students on LEAP *Research Experiences for Undergraduates (REU) Program*
- Supervised 3 undergraduate students in their summer research
- Trained student on the use of technology to enhance research and presentation
- Recognized as Ambassador ranked excellent by mentored students.

Computer Studies Teacher; *Government School- Jos North*, Nigeria   Feb 2015 – Jan 2017
- Provided free computer education to elementary school kids in the local community
- Taught Computer Studies to Junior and Senior high school students.
- Mentored elementary school kids on the use of technology to enhance learning

- Simplified difficult concepts for easier assimilation and understanding among school pupils.
- Collaborated with school teachers and principals to formulate computer study curriculum.

UNIVERSITY SERVICES

Texas Southern University   Houston, TX
Graduate Assistant, Office of Vice President of Research   Feb 2021 – Dec 2022
- Participated in the planning and implementation of various initiatives and programs such as MCH and LEAP
- Organized various symposiums which aimed at exploring different academic disciplines to derive rich research goals and tasks
- Involved in the evaluation of research use cases and deducing workable explanations or advances. Also, I helped in communicating feedback and milestones-based deliverables.
- Coordinated and collaborated with faculty members, staff, post-doctoral fellows, graduate students and undergraduate students across departments
- Collated all research funding data according to PIs, funding agencies, requisitions and reimbursement drafts.

International Students Graduate Mentor   2021
   Texas Southern University Buddy Program;, under the guidance of *Patricia Luckett/Director-PDSO*
- Mentored an international master's Student: Own Mokuy Franciso.
- Supervised his academic progress and made recommendations where necessary
- Counseled mentee on academic entails and professional requirements

Graduate Mentor, Student Academic Career Service Center (SASS)   2021
   Texas Southern University
- Served the university community to implement various learning approaches aimed at helping students access tutorial supports
- Organized meetings and evaluates feedback from all university tutors.
- Offered recommendations on undergraduate students' academic progress to SASS supervisors.
- Collaborated with a team to review tutor's reports and concerns

PROFESSIONAL EXPERIENCE

CloudSync   Jos, Nigeria
- Checkpointing endpoints against malware attacks and initiating Roll-back actions for malware disinfection
- Blocking and exploring WAAP solutions (Web application and API)
- Analyzing and segmentation of code structures to detect dead code injection.
- Observed different obfuscation models to uncover functionality effect and dynamics of malware
- Installed, configured, and troubleshoot computer hardware and software using test suits deployed against malware and adversaries programs.

University of Jos   Jos, Nigeria
ICT Directorate (SIWES)   Jan 2016 – July 2016
   Data Lineage Based Cyber Resilience of ICT Server
- Examined methods of compiling whole-system data provenance in kernel space, involving the deployment of *reliable computing base*, *tracepoints*, and *provenance hooks*
- Scrutinized *online* provenance decreasing techniques built upon **garbage collection** or **system call aggregation** methods as well as *real-time* provenance analysis methodologies established on the origination of low-level provenance charts
- Adopted and configured ICMP discovery protocol on networks bandwidth to enable broadcast listening and identification of attacks.
- Integrated dynamic ARP inspection frameworks for ensuring authorization of valid request.
- Troubleshooting malfunctions on network components (Extranet, Internet routers/switches, ACI, Load balancers, DWDM) wireless and voice systems to resolve operational issues and restore services.
- Assist in developing prototypes (to improve envisioning and communication) and proof- of- concept systems (to test technology) to validate potential solutions.

TECHNICAL SKILLS

- **Programming Languages & Databases: Python, Java, C++, C, HTML, CSS, SQL, PostgreSQL**
- **Cyber security**: Nagios, Wrieshark, Snort, BlueTeam Nmap, Kill Chain, ATT&CK
- **AI & Machine Learning**: Statistical Modeling, Deep Neural Network, TensorFlow, Keras, PyTorch, Statistics
- **Big Data & Data Analytics**: Spark, Hadoop, NetworkX , NumPy, pandas, scikit-learn, Seaborn, Matplotlib
- **Tools & Technologies**: Virtualization, Docker, Kubernetes, Cloud (Google Cloud Platform, AWS), Network Traffic Analysis (Wireshark, Packet Tracer, Network Simulator), Linux (Ubuntu, Fedora, Red Hat), Git, Vagrant

INTERNATIONAL COMMUNITY SERVICES

Delegate, *FWWMUN– Future We Want Model United Nations*   July 2022 – July 2022
   Model United Nation   Manhattan, NY
- Participated in FWWMUN. A United Nation global initiative aimed at bringing together young future world leaders to discuss the 17 sustainable development goals which drive the world to a better place.
- Lead Delegate*; United States of America*.; UNHRC Committee: Participated in UN debate titled: Climate Change and Displacement.
- Facilitator: planned and oversaw various programs for over 1500 FWWMUN delegates and delegation

Delegate/Ambassador, *Model United Nations, Accra*   Jan 2019
   Ghana Model United Nations   Accra, Ghana
- Participated in Ghana Model United Nations. An educational conference aimed at bringing young delegates across all African countries to discuss different resolutions which are submitted to African leaders and different UN agencies.

CERTIFICATIONS

- Cybersecurity Practices for Industrial Control Systems
- Attach Methodologies in IT& ICS
- ICS Cybersecurity Threats
- ICS Cybersecurity Risk
- Cybersecurity Essentials (CISCO)
- Introduction to Cybersecurity

PROFESSIONAL ASSOCIATIONS

- National Cybersecurity Student Association - Society for the enhancement of cybersecurity
- Information System Audits and Control Association **(ISACA)** **-** Society for cybersecurity research & development
- American Computing Machinery **(ACM) –** Society for the advancement of computing research
- American Association for the Advancement in Science **(AAAS)** - Society for the advancement of science
- British Computer Society **(BCS)**   **-** Society for the advancement of British IT Professionals
- Nigerian Computer Society **(NCS)**   **-** Society for the advancement of Nigerian Computing Community

LANGUAGES

Ibo: Native.   English: Proficient   Spanish: Reading Knowledge   Swahili: reading knowledge,   Hausa: Fluent

Other Degrees

Vanderbilt University, Owen Graduate School of Management   Nashville, TN
Certificate in Business Management (Online)   July 2022 - Present
Relevant Courses: Strategic Leadership, Finance & Accounting, Strategic Innovation, then Strategy and Operations.

University of Jos, Centre for Conflict Management and Peace Studies   Jos, Nigeria
Master of Science in Conflict Management and Peace Studies   Jan 2018 – Nov 2019
Advisor: Professor Elias Lamle