

Frantzy Mesadieu

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Highly effective at resolving crisis situations and working with culturally diverse populations; experienced in team management, administrative accountability, supply management, cybersecurity, and computer information systems.

Education

Texas A&M University Central Texas (2020 - 2022)

Master of Science in computer information systems

Texas A&M University Central Texas (2018 - 2020)

Bachelor of Science in Cybersecurity

Central Texas College (2016 - 2018)

Associate of Arts

Teaching/supervising experience

Master driver's instructor school Fort Sill (2006 - 2007)

License Instructor / License Examiner

Develops and maintains Brigade/Battalion drivers training in accordance with Army Regulation (AR 600-55, AR 385-10), and TC 21-305-20 in order to build a battalion driver's training program. Used regulatory guidance, references, required documentation, sample training products, administrative documents, to train all assigned operators efficiently and effectively.

Designated unit fitness training noncommissioned officer school Fort Sill (2006 - 2007)

Master Fitness Trainer

Assist commanders in developing programs that establish a physical fitness program in accordance with FM 7-22 and Army Regulation (AR 600-9). Prescribe proper exercise and fitness techniques to assist Soldiers in meeting and maintaining body fat standards. Train other command designated NCOs in proper height, weight, and body circumference methodology to assess body fat composition.

Publication

- **Title:** Deep learning techniques to detect cybersecurity attacks: a systematic mapping study
 - **Description:** Achieved publication of groundbreaking academic paper on cybersecurity and deep learning, contributing to advancements in the field.
 - **Link:** <https://link.springer.com/article/10.1007/s10664-023-10302-1>

Research Skills

- Cybersecurity
- Leveraging AI for intrusion and anomaly detection
- Exploring machine learning models for process optimization
- Analysis of critical infrastructure (Smart Grids) and SCADA systems
- Developing AI framework of deep reinforcement learning algorithms
- Application of deep reinforcement learning on SCADA
- V2C or cloud communication in autonomous vehicles

Awards

- Distinguished Graduate
- Graduated Magna Cum Laude
- Cumulative GPA of 3.90/4.00
- Impact Award Graduate Assistant 2022
- TAMUCT STEM Summer 2022 Cybersecurity Camp

Professional associations

- Honor Society

Other qualifications

- Entry level knowledge of Python programming
- Knowledgeable with Anaconda distribution and Jupyter Notebook
- Currently possess an Active Security Clearance
- Bilingual (Creole, French)
- Software: Microsoft Office (2007, 2010, 2019, 2021) - Novice
- Operating Systems: Microsoft Windows (Vista, 10, 11); Kali Linux

- Data Science & Strategy: Examine large datasets using scripting languages or modern statistical analyses and computational languages (e.g., Python, Jupyter Notebook)
- Product Management: Coordinate across stakeholders and use agile or lean approaches to align cross-functional teams around a common vision or strategy and user needs
- Petroleum Certification, Ft Lee, VA
- Constructed and operated Army Fuel Systems Supply Points
- Operated airplane refueling systems and equipment, planning and scheduling petroleum transport, and operated pumps, pipelines, fuel tanker equipment
- Proficient in safety regulations and procedures for managing dangerous materials
- Provided fleet management support to organizations
- Conducted fleet vehicle inventory and dispatching

Employment

Research Associate, Texas A&M University Central Texas (2022 - present)

- Conducts research into cybersecurity threats and emerging technologies.
- Develops new techniques for cybersecurity threat management and mitigation.
- Explores, analyzes, and evaluates security solutions and authors to research publications.
- Identify and develop state of the art methodology for countering new threats and attacks prevention.

Graduate Research Assistant (Cybersecurity) (2021 - 2022)

Texas A&M University Central Texas

Warrior Transition Brigade Cadre (Senior Squad Leader / Platoon Sergeant) (2012 - 2016)

Department of the Army, Fort-Cavazos, Texas

Supervisor / Department Manager (Platoon Sergeant) (2011 - 2012)

Department of the Army, Basrah, Iraq

Petroleum Distribution (Supervisor / Department Manager) (Feb 2011 - Jun 2011)

Department of the Army, Basrah, Iraq

Mayor Cell NCOIC (Supervisor / Department Manager) (Feb 2011 - Apr 2011)

Department of the Army, Basrah, Iraq

Operations Manager (2003 - 2004)

U.S. Marine Corps, Okinawa, Japan

Security Team Lead (Jun 2002 - Sep 2002)

U.S. Marine Corps, Okinawa, Japan

Training

- Web Development & Design with HTML5 and CSS, 2020
- Computer Security Principles and Practice, 2020
- Security and Malware Analysis/Penetration testing, 2020
- Kali Linux, 2020
- Project Management (Project manager Microsoft Professional), 2016
- Database processing, 2019
- Strategic Management of Information Systems, 2019
- Introduction to Computer Forensics Texas A&M University, 2019
- Information Technology Security & Risk Management Texas A&M University, 2019
- Business Statistic Texas A&M University, 2019
- Data Communications and Infrastructure Texas A&M University, 2018
- System Analysis & Design Texas A&M University, 2018
- Python, C++ and Java Programming Texas A&M University, 2018
- Principle of Management (Leading & Collaborating) Texas A&M University, 2018
- Master Resiliency Certification (Problem Solving/Human Behavior), 2015
- Mid-Level Manager Training (Advance Leaders Course), 2013
- Warrior Transition Certification Squad Leader & Platoon Sergeant (Supervisor), 2012
- Hazardous Material Cert; HAZMAT Driver Instructors Course, 2009
- General; FEMA Courses, 2009-2010
- Hazardous Material Handling; HAZMAT 12 Certification, 2008
- Advanced Driver's Training/Instructing (Master Drivers Course), 2007
- Command Language Proficiency (German, Japanese), 2007
- Basic Pipeline Operations, 2005
- Petroleum Product Moving Equipment Operation, 2005
- Principles of Supervision, 2005
- Pipeline Distribution System, 2005
- Introduction to Petroleum Safety, 2005
- Inventory Management, 2005
- Entry Level Managerial Training (Marine Corp Corporal's Course), 2003
- Personal Financial Management, 2002
- Principle of counseling, 2002
- Junior-Level Manager Training Marine Corp Institute Leadership Courses, 2002-2003
- Logistic Vehicular System Certification, 2001