Fatima majid

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# Education

Bachelor’s in cyber security engineering | George Mason University 2026

Associate’s in computer science | NOVA 2023

International baccalaureate diploma 2020

# Technical Skills

Coding | Java, SQL | Debugging | Microsoft Office | Spreadsheets | Oracle | Python | C++ | Java | SQL | Kali, Linux, Wireshark | Burp Suite | Netcat | Tableau | AI Scripting | AI Prompting | Arduino | Soldering | Incident Response | NIST | Penetration Testing | Malware Analysis | SharePoint|

# PUBLICATIONS

Lemus, B., **Majid, F**., Nguyen, B., Vo, Q., Ngac, B. K., & Menon, N. (2025). The U.S. allies leading AI development in malware and network security. *ISSA Journal*, March–April 2025, 14–15

# Work Experience

**Cyber/AI Research | US CYBERCOM | GMU**

* Conducted applied research on AI-driven malware development and countermeasures, analyzing adversarial tactics and infrastructure deployment across global threat actors.
* Analyzed patterns of nation-state cyber-attacks to support intelligence-driven defense strategies and allied collaboration in cyber threat hunting.
* Researched dual-use AI technologies and their implications for cyber defense policy, contributing to ongoing strategy discussions at USCYBERCOM.
* Collaborated with technical and policy experts to assess adversarial use of generative AI in crafting advanced social engineering and malware payloads.
* Developed briefing materials and technical memos summarizing findings on AI in cyber warfare, with a focus on data sovereignty, attribution, and counterintelligence.

**Northrop Grumman | Tactical Space Division RA Support**

* Provided support for engineering and technical roles within the Tactical Space Division, streamlining tracking and communication across classified and unclassified projects.
* Maintained metrics on recruiting pipeline performance and time-to-fill, delivering weekly reports to division leadership and HR partners.
* Ensured sensitive candidate information was handled in accordance with corporate and federal compliance standards, including clearance-level designations.
* Utilized secure data environments and adhered to ITAR compliance protocols while handling sensitive technical information.
* Created technical documentation and presentation materials to support internal reviews, milestone briefings, and proposal development.

VASEM **| Undergraduate Policy Program | SUMMER 2025**

* Explore the intersection of science, engineering, and technology with public policy to evaluate their impact on Virginia’s legislative and regulatory frameworks.
* Analyze case studies addressing critical state issues such as Virginia’s energy demands, AI adaptation, coastal resilience, and health disparities, applying multidisciplinary approaches to policymaking.
* Engage directly with Virginia’s General Assembly delegates, executive branch officials, and JCOTS leadership to gain insights into state-level governance and policy development.
* Shadow COVES graduate fellows in state agencies, legislative offices, and nonprofit organizations to observe the practical implementation of science-informed policy decisions.
* Develop written and oral communication skills by synthesizing complex scientific information into policy-relevant formats for diverse stakeholders.
* Assist attorneys at McGuireWoods with legal research, drafting memoranda, and preparing case summaries to support litigation and corporate matters.

# ProJECTS

**Unmanned Aerial Vehicle Prototyping |GMU**

* Assembled and configured custom UAV ,Integrating mechanical structures, propulsion systems, flight controllers, and onboard sensors.
* Programmed microcontrollers ( Arduino ) for flight stabilization, telemetry transmission, and sensor data integration.
* Wrote Python scripts for pre-flight calibration, telemetry decoding, and automated post-flight data analysis using sensor logs.
* Calibrated and tested flight dynamics, including PID tuning, motor balancing, and ESC configuration to ensure stable flight under variable conditions.
* Integrated and troubleshot communication systems ( radio transmitters, GPS )for real-time drone navigation and control.
* Collaborated in a multidisciplinary team to prototype and iterate UAV systems, applying principles of aerodynamics, embedded systems, and electrical engineering.
* Conducted flight tests and analyzed performance metrics to refine hardware and software configurations for optimal drone stability and responsiveness.

**Department of Defense | Digital Onramp Platform**

* Tested large language model (LLM)-driven conversational search tools on the DOD Digital Onramp platform to evaluate relevance, accuracy, and responsiveness in matching dual-use technologies to mission needs.
* Assessed the performance and security of AI-integrated systems within a single sign-on (SSO) environment, ensuring compliance with defense-grade data protection protocols.
* Provided structured feedback on human-computer interaction (HCI) design, focusing on interface intuitiveness, navigation flow, and accessibility for both commercial users and DOD personnel.
* Participated in secure sandbox testing of real-time opportunity matching algorithms, helping validate system reliability, latency, and scalability across dynamic defense data sources.
* Contributed to iterative user experience (UX) improvements for an AI-enabled innovation platform by logging bugs, usability issues, and LLM output anomalies to support MVP refinement.

Treasurer**| Digital Law | GMU**

* Utilized financial management software to track and analyze organization expenses and revenues.
* Implemented automated budgeting tools to improve accuracy and efficiency in financial reporting.
* Developed data-driven forecasts to guide strategic financial decisions for upcoming digital law initiatives.
* Ensured secure handling of digital payment platforms and online transactions to maintain financial integrity.
* Collaborated with IT teams to integrate financial data into organizational dashboards for real-time monitoring.