

# Jaafar J. Gharib

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## EDUCATION

### Carnegie Mellon University

Master of Science in Information Security

Selected Coursework: Introduction to Computer Systems, Principles of Imperative Computation

Pittsburgh, PA

December 2025

### University of New Orleans

Masters of Science in Computer Science Prerequisites

GPA: 4.0/4.0

Selected Coursework: Data Structures, Systems Programming Concepts, Assembly Language (x86)

New Orleans, LA

December 2023

### Louisiana State University

Bachelor of Science in Biological Sciences

Baton Rouge, LA

December 2020

## SKILLS

**Programming:** Java, C, Python, Assembly (x86, x64, ARM), Powershell,

**CLI:** Zsh, Vim, GDB, Shell scripting, Nmap, pwntools

**Tools:** Ghidra, IDA, Radare2, VirtualBox, Wireshark, Burp Suite, Docker, OpenSSF

**Operating Systems:** Linux, Windows, Mac

**Cloud Services:** AWS, Microsoft Azure, Exchange Online Services, O365

**Development:** Git version control, Pipeline efficiency, Agile methodology, Open source software security

**Languages:** Fluent in English and Arabic

## EXPERIENCE

### Amazon

SECURITY ENGINEER INTERN

Seattle, WA

May 2024 - August 2024

- Analyzed and secured Maven packages, covering ~40% of Amazon's codebase, reducing potential security risks by 30%.
- Developed a deprecation checking feature for 90% of Amazon's codebase, reducing vulnerable package usage by 25%.
- Implemented security for Developers which enhanced CI/CD pipeline efficiency by reducing code review time.
- Gained proficiency in AWS Lambda, ECR, and Dynamodb contributing to agile development processes.

### Susan G Komen

CYBER SECURITY ANALYST INTERN

Remote, USA

August 2023 - November 2023

- Conducted port scans on web applications and identified associated CVEs enhancing network security
- Constructed a Wireshark training environment to bolster the team's network analysis capabilities
- Monitored web traffic requests and ensured confidentiality of medical records on web application
- Designed data flow diagrams using Microsoft Visio to streamline vulnerability identification

### JMH Companies

INFORMATION SECURITY INTERN

New Orleans, LA

May 2023 - August 2023

- Developed a PowerShell script identifying user email permission errors with 100% accuracy
- Utilized Microsoft Defender for Cyber Threat Hunting, improving Defender security score by 15%
- Responded to enterprise security incidents and refined user protocol for future mitigation
- Collaborated on a patch management strategy adhering to the NIST, CISA, and OWASP guidelines

### University of New Orleans

ASSISTANT WEB SECURITY RESEARCHER

New Orleans, LA

November 2022 - May 2023

- Developed a Flask application resulting in automated phishing attacks, increasing analysis accuracy
- Implemented a SQLite database storing critical email statistics and unique user identification
- Reconstructed malicious web request techniques used to evade web security crawler for security analysis

## LEADERSHIP

### University of New Orleans

CTF CLUB TEAM LEADER

New Orleans, LA

January 2023 - December 2023

- Organized and directed team during CTF competitions, fostering a collaborative learning environment
- Guided peers on how to identify memory corruption vulnerabilities in binaries using IDA and Ghidra
- Mentored team in using GDB and Python for function stack analysis and binary exploit development