

Mihai Ciocan-Merauta

Bucharest | mihaiciocan44@gmail.com | +40 737 605 900 | beowolf23.io | linkedin.com/in/mihai-ciocan
github.com/beowolf23

About me

Cybersecurity Master's student with a passion for software engineering and application security. Experienced in developing innovative solutions using **Go**, **Java**, and **Python**, with a strong focus on **cloud technologies** (Google Cloud Platform) and **secure software development**. Proven track record of technical excellence through professional work and impactful personal projects, including **REST API development**, **CI/CD pipelines**, and **container orchestration** with **Kubernetes**.

Education

University Politehnica of Bucharest, MS in Cybersecurity Oct 2024 - July 2026

- **Coursework:** Threat Intelligence, Network Security, Secure Software Development

University Politehnica of Bucharest, BS in Computer Science Oct 2020 - July 2024

- GPA: 9/10
- **Coursework:** Parallel Computing, Object-Oriented Programming, Operating Systems, Introduction to Cybersecurity

Experience

Lab Assistant, Polytechnics University of Bucharest October 2024 – Present

- Instructor for Introduction to Cybersecurity course labs, focusing on practical Web Security Penetration Testing concepts.
- Guided students through hands-on cybersecurity techniques, bridging theoretical knowledge with practical application.
- Developed and conducted interactive lab sessions demonstrating web application security vulnerabilities and mitigation strategies.

Software Engineer, Deutsche Bank September 2024 – Present

- Responsible for rearchitecting a legacy application deployed on-prem to a newer tech stack involving **Spring Boot** for the backend, **React** for the frontend, and **Google Cloud Platform** for the infrastructure.
- Implemented **CI/CD pipelines** to automate deployment processes, improving deployment efficiency by 30
- Collaborated with cross-functional teams to design and implement scalable, secure **REST APIs**.

Software Engineer, Deutsche Bank August 2022 – Present

- Developed the automation process of mobile application code signing and deployment until production, being the entry point of the bank to Google Play Store and Apple Store.
- Responsible for the code signing architecture from Cary USA to Bucharest.
- Migrated the MobileIron solution for corporate mobile applications to **Microsoft Intune** as part of the cost-cutting strategy.

Software Engineer Intern, Deutsche Bank March 2022 – July 2022

- Designed and implemented a full-stack e-learning web application using **React** and **Spring Boot**.
- Created a robust, interactive platform enabling course enrollment and management for students and teachers.

Projects

Java Multi-Pool Manager pool-manager

- Developed a generic connection pooling framework with extensible support for multiple protocols (e.g., SSH, SMB) to centralize resource management for command execution, file uploads, and downloads.
- Enhanced flexibility with reusable components and pluggable handlers for new connection types.

- Integrated monitoring mechanisms to track connection health, utilization, and performance, ensuring scalability and operational reliability.
- Technologies: Java 17, Java Generics, Apache Common Pools, SSHJ, SMBJ, JUnit 5, Mockito, Test Containers

GoRSA

gorsa

- Created a Go project implementing a full RSA cryptography system. The code generates secure keys, encrypts and decrypts messages, and supports digital signatures using advanced cryptographic techniques.
- Built with Go's crypto libraries, the project demonstrates practical encryption methods through secure prime number generation, message hashing, and mathematical operations on large integers.
- Technologies: Go, Cryptography, RSA Algorithm, SHA-256, Big Integer Manipulation

Google Form Filler

google-form-filler

- Developed a tool to automate the submission of Google Forms. Utilized Burp Suite to capture and analyze network traffic, gaining insights into how Google transmits form data to servers.
- This project helped me understand how powerful Burp Suite can be and it made me understand topics like Forwarding Proxies as well as the Repeater feature of Burp.
- Technologies: Python 3, Burp Suite

Certifications

Associate Cloud Engineer - Google Cloud Platform

HackTheBox Bug Bounty Hunter - Web Security

Technologies

Languages: Java, Python, Go

Frameworks: Spring Boot, Spring Security, Spring Data JPA, FastAPI

Databases: Microsoft SQL Server, PostgreSQL, Oracle

Cloud Technologies: Google Cloud Platform

Penetration Testing Tools: Burp Suite, ffuf, Nuclei, SQLMap, rustscan, PayloadsAllTheThings, SecLists, Impacket, Nikto

Technologies: Github, Github Actions, Bitbucket, Penetration Testing Tools