

BEKTUR UMARBAEV

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[Github](#) ◇ [Gitlab](#) ◇ [Hackthebox](#) ◇ [TryHackMe](#) ◇ [Cryptohack](#)

EDUCATION

Sapienza University of Rome

Cybersecurity, Master's degree

September 2020 - January 2022

Not completed, Overall GPA: 27.62/30.0

American University of Central Asia

Applied Mathematics and Informatics, Bachelor's of Arts / Bachelor

September 2017 - June 2020

Overall GPA: 3.76/4.0

American University of Central Asia

Software Engineering, Bachelor's of Arts / Bachelor

September 2017 - June 2020

Overall GPA: 3.76/4.0

American University of Central Asia

Economics, Bachelor's of Arts / Bachelor

September 2013 - June 2017

Overall GPA: 3.68/4.0

EXPERIENCE

Mobile operator O!, GreenTelecom Service, DevCats

July 2022 - Present

Department of System Administration - Security Engineer, Automation Engineer

- Penetration testing, incident response and malware analysis
- Active Directory deployment and management, GPO configuration (DevCats, GreenTelecom Service)
- Deployment and management of [ELK SIEM](#) cluster
- Development of [Netbox](#) plugins for:
 - Automated monitoring of Storage Area Network (SAN) switch port statuses
 - Automated monitoring of LUN device mappings to Hypervisors and VMs via [VMware vSphere API](#)
 - Automated IP Address Management scanner
- Automation of Active Directory management and monitoring:
 - Automated monitoring of Active Directory user and group changes
 - Telegram bot API for Active Directory user management

Mobile operator O!

February 2022 - July 2022

Department of Testing and Control of Operation of Services - QA Engineer

- Automation and API testing

Research Station of the Russian Academy of Sciences in Bishkek

May 2019 - July 2019

Undergraduate Internship

- Implementation of clustering techniques to automate the process of identification of noises and Acoustic Emissions signals

AUCA, USAID

January 2019 - July 2019

Research Assistant

- Research title: *Subdivision of T-spline Surfaces with Tessellation Shaders on GPU to Accelerate Rendering of Terrain Data*

AUCA

January 2019 - May 2020

Computer Architecture, Operating Systems, Structural Programming - Teacher Assistant

- Supervision of students and conducting the lab classes
- Revision of class material with students during classroom and non-classroom times

SKILLS & TOOLS

Category	List
Systems & Virtualization	Windows, Linux (RedHat-based, Debian-based), VMware
Skills	Reverse engineering
Programming & Scripting Languages	C/C++, Assembly, Python, C#, Java, SQL, Rust, GoLang, Powershell, Bash, R, Matlab, LaTeX, Solidity
Cybersecurity: Pentesting Tools	Burp Suite, OWASP ZAP, IDA, Metasploit, OpenVAS, Nessus
Cybersecurity: Cyber Defence Tools	Wireshark, yara, Splunk, Autopsy, Snort, Brim, Zeek, OSquery, Redline, Volatility, IDA
Other	Git, Docker, ELK, Postman, OpenGL, PacketTracer, CUDA, Libpcap, Arduino IDE

PROJECTS

Cybersecurity blog and notes

Implementation of User-mode Scheduling Kernel Module for Linux (C)

Thesis: Energy-Efficient Routing Scheme for Wireless Air Monitoring System (Matlab)

Combo Engine (C++)- OpenGL based game engine

Primitive game engine (C++)

ACHIEVEMENTS

Cyber Apocalypse CTF 2022 - Intergalactic Chase Rank: 454/7024

Listed in the Dean's List: 2014, 2015, 2016, 2018, 2019

EVENTS, COURSES AND CERTIFICATIONS

- *Advent of Cyber 2022, 2021*
- *Advent of Code 2022 (Rust, GoLang)*
- *CPTS, BBH, RTO I* - In Progress
- **TryHackMe**
 - SOC Level 1
 - Red Teaming Learning Path
 - Offensive Pentesting Learning Path
 - Cyber Defense Learning Path
 - Jr Penetration Tester Learning Path
 - CompTIA Pentest+ Learning Path
- **TCM Security Academy**
 - Practical Windows Forensics
 - Movement, Pivoting and Persistence
 - Linux Privilege Escalation for Beginners
 - Windows Privilege Escalation for Beginners
 - Practical Ethical Hacking - The Complete Course
 - Practical Web Application Security and Testing
 - Open-Source Intelligence (OSINT) Fundamentals
 - External Pentest Playbook
 - Practical Malware Analysis & Triage
 - Mobile Application Penetration testing
- **API Security University**
 - API Penetration Testing