

# BEKTUR UMARBAEV

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

## EDUCATION

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### 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

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### Mobile operator O!

*Department of System Administration - Security Engineer, Automation Engineer*

July 2022 - Present

- Penetration testing, incident response and malware analysis
- Deployment and management of [ELK SIEM](#)
- 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!

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

February 2022 - July 2022

- Automation and API testing

### Research Station of the Russian Academy of Sciences in Bishkek

*Undergraduate Internship*

May 2019 - July 2019

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

### AUCA, USAID

*Research Assistant*

January 2019 - July 2019

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

### AUCA

*Computer Architecture, Operating Systems, Structural Programming - Teacher Assistant*

January 2019 - May 2020

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

### CHAKAN HPP

*General Secondary Education Internship, Undergraduate Internship*

June 2016 - September 2016

- Accounting assistant, Financial accounting, Managerial accounting

## SKILLS & TOOLS

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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

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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

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

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

## EVENTS, COURSES AND CERTIFICATIONS

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- *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