

AKOBIR ISMATOV

AI SOFTWARE AND CYBERSECURITY ENGINEER



CONTACT

- +52 81 1154 9797
- cv.exit312@passmail.net
- Monterrey, México
- <https://akobirismatov.github.io/CV/>
- <https://www.linkedin.com/in/akobir-ismatov-ba9055195/>

SKILLS

- Python / Bash / Automation / Scripting
- SIEM, RMM, IDS/IPS, EDR/XDR
- Computer Vision
- R&D
- Artificial Intelligence / LLMs
- Deep/Machine Learning
- Network security / Cybersecurity
- Data Analytics
- Blockchain, Crypto

LANGUAGES

- English (Fluent)
- Russian (Fluent)
- Uzbek (Fluent)
- Tajik (Fluent)
- Korean (Basic)

CERTIFICATES

- Jr. Penetration tester, SOC level II, Web, Offensive Pen Testing, Cyber Security 101, Web Fundamentals, etc. (250+ hours training on TryHackMe platform, profile link in contact section, top 4% user).
- Microsoft Defender for Endpoint Training
- Many more can be found on LinkedIn profile



PROFILE

Has a strong foundation in Artificial intelligence, Network/Cyber Security, and Big Data. Earned a Master's degree in Network and Security at Chungnam National University, specializing in broadcasting in MANETs. Experienced in Cyber Security, deep learning, machine learning, and IoT security, with hands-on work in AI-driven optimization for network protocols. As an ENTP-A personality, thrives in fast-paced environments, enjoys tackling complex problems, and excels in strategic decision-making. Published multiple research papers in IEEE, Electronics, MDPI, and international conferences.



WORK EXPERIENCE

Mobility Hub

Cybersecurity Specialist (Offensive & Defensive) 2024.06 - Present

Network Security & Infrastructure Testing:

- Implemented current SIEM solution for the company, and further integrating it with 3rd party systems such as Malware analysis, Suricata/Snort as IDS/IPS, XDR with active scripts & AV solutions such as VT, implemented open-source AI models such as DeepseekR1, Gwen, oss-gpt for CTI/Data enrichment and more. (Used Wazuh, Splunk)
- Conducted full-scope penetration testing (reporting) on company assets including web applications, networks, IoT devices, and internal infrastructure. (Using manual and automated tools such as Nessus and Tenable).
- Implemented current in use RMM solution for patching and vulnerability management and system hardening of endpoints, in addition to remote management. (Worked with Action1 and NinjaOne)
- IT hygiene, and asset inventory management, in addition to monitoring/removal of data leaks, on web/dark web, forums and other data pawn locations.
- Lead the development of company-wide cybersecurity awareness materials, guides, and training.

Senior software engineer 2024.06 - 2025.03

- Develop, deploy, and maintain applications implementing Computer vision systems and data collection and analysis. (Personalized Advertisement system, Facial recognition/tracking based monitoring system, Customer history based analytics).

Chungnam National University

Network and Security Researcher (R&D) 2023.03 - Present

- Worked on a Differential Authentication Scheme for electric vehicle (EV) charging systems using LightGBM, achieving ~41% reduction in TLS handshake latency.
- Developed a Resilient Routing Protocol for mobile ad hoc networks (MANETs) combining unsupervised learning and deep reinforcement learning.
- Published and co-published 7+ peer-reviewed papers in top-tier journals (IEEE Access, Electronics MDPI, Springer, JICCE, and presented).

HancomWith

Forensics analyst intern 2022.09 - 2023.01

- Using in house software extracted / restored forensics data from mobile devices based on iOS and Android operating system.
- Developing scripts and crawlers for data cleaning/sorting and extraction from mobile/drone devices.
- Provided trainings and hands on labs to the customers.

Woosong University

Lab Assistant 2020.08 - 2022.02

- Assisted with supply control and tech equipment inventory management.
- Calibrating different types of machinery (mainly personal computers/drones/VR equipment), and preventive maintenance.
- Provided educational seminars / technical training/ drone and VR showcases to visitors.

PROJECTS

Artificial intelligence:

- Facial recognition data management using blockchain 2020.
- Day and Night Classification / Object Recognition. 2021.
- Drug detection/cancer classification projects. 2022
- Facial recognition for advertisement. 2024

Text classification and analysis (NLP):

- Chapter-based summarization.
- Url link text summarization.
- Keyword extraction. 2022.

Web/database:

- Woosong University Online Database with PHP and MySQL. 2020.
- World Universities for master’s degree Programs Website with HTML and CSS. 2020.
- Stock Manager with Python. 2020.
- American sign language translator with Deep learning. 2021.

Blockchain:

- Decentralized trading platform. 2022.
- NFT and Crypto minting/mining farm projects. 2022.

(Some of the projects are available at the GitHub profile provided in the contact section)

ACHIEVEMENTS

Woosong University.

- Certificate of Appreciation for contribution to the development of Woosong university's programs. (2020)
- Top graduate / class of 2023
- Research trip to Japan with funding provided by the Korean Government

Received IHCI-2021 travel scholarship fund providing USA trip to IHCI conference.



EDUCATION

Master of Science: Network and Security

2023 - 2025

Chungnam National University – Daejeon, South Korea.

- GPA: 4.0 / 4.5
- Full scholarship and stipend for research

Bachelor of Science: Artificial Intelligence and Big Data

2019 - 2023

Woosong University - Daejeon, South Korea

- GPA: 4.22 / 4.5
- Scholarship
- Award from the Technology department and Dean (for exemplary performance)

Computer Engineer Degree

2015 - 2018

Tashkent Vocational College of Radio-engineering, Uzbekistan

- GPA: 5 / 5
- Student president



PUBLICATIONS

Adaptive Broadcast Scheme with Fuzzy Logic and Reinforcement Learning Dynamic Membership Functions in Mobile Ad Hoc Networks.

- Mathematics (MDPI) (2025-07)

Fuzzy Logic Based Broadcasting Scheme for Mobile Ad Hoc Network.

- ITNAC, IEEE (2024-11)

A New Broadcasting Scheme Based on Reinforcement Learning-Driven Adaptive Fuzzy Logic in Mobile Ad Hoc Networks.

- AINA, Springer (2025-01)

IoT-Enhanced Transport and Monitoring of Medicine Using Sensors, MQTT, and Secure Short Message Service.

- IEEE Access (2024-01)

Content Caching Algorithms in Drone-aided Ad Hoc Networks.

- Computers, Materials & Continua (SCIE) (2024-12)

A Resilient Routing Protocol to Reduce Update Cost by Unsupervised Learning and Deep Reinforcement Learning in MANETs.

- Electronics (MDPI) (2025-01)

Differential Authentication Scheme for Electric Charging System through Light Gradient Boosting Machine.

- Journal of Information and Communication Convergence Engineering (SCOPUS) (2024-09)

New Tree Routing Protocol with Adaptive Metrics Based on Hop Count.

- Journal of Information and Communication Convergence Engineering (SCOPUS) (2024-09)

Facial Recognition Data Management in Blockchain.

- Chapter in 'Blockchain Technology for IoT Applications' (2021-03)

Night Vision, Day & Night Prediction with Object Recognition (NVDANOR) Model.

- IHCI Conference (2021-12)