



Nurkanat Baisenkul

IT Specialist

GitHub: <https://github.com/tuchaVshortah>
Address: Almaty, Kazakhstan
LinkedIn: <https://www.linkedin.com/in/nurkanat-baisenkul/>
Email: nurkanat@nurkanatb.kz

As a skilled Cybersecurity Engineer, I hold a robust background in software development, DevOps, and cybersecurity, currently enhancing my expertise through pursuing an AWS Solutions Architect certification. My professional journey includes key roles where I have directly improved network security through innovative solutions such as developing an ARP spoofing detection program. These experiences underscore my capability to contribute effectively in IT environments requiring security and technical knowledge.

EXPERIENCE

Institute of Space Engineering and Technologies LLP

February 2025 - Present

First Category Engineer

- Configured advanced PostgreSQL replication and logging. Wrote a custom passwordcheck module that enforces password policies.
- Set up RabbitMQ clusters and replication for high availability.
- Set up GitLab on-premise and Docker runners. Created CI/CD pipelines to auto install dependencies, lint, build, test (SAST) and deploy.
- Set up Hashicorp Vault for secure secret storage. Configured path policies and roles.

Epam Kazakhstan

July 2024 - February 2025

Cloud&DevOps Student Trainee

- Acquired knowledge in Docker, Kubernetes, CI/CD with Jenkins, GitLab, and GitHub, enhancing my technical skills.
- Successfully deployed applications using AWS, demonstrating my ability to handle complex cloud platforms.
- Implemented the Infrastructure as Code (IaC) approach with AWS Cloudformation and Terraform, showcasing my proficiency in modern DevOps practices.

Akhmet Yassawi University, Turkestan

March 2024 - August 2024

IT Specialist

- Provided technical support and administration services as an IT Specialist at Akhmet Yassawi University.
- Utilized expertise in troubleshooting and maintaining IT systems to ensure smooth operational flow.

Development Bank of Kazakhstan, Nur-Sultan

June 2021 - August 2021

Cybersecurity Engineer

- Utilized Python and Rust skills to conduct comprehensive network security tests at the Development Bank of Kazakhstan (DBK).
- Developed a software solution capable of detecting ARP spoofing attacks on the local network, enhancing the bank's cybersecurity infrastructure.
- Contributed to the elevation of the bank's cybersecurity level over a three-month period, effectively preventing potential breaches.
- Acquired new cybersecurity techniques and tools through collaboration with experienced peers and mentors.

EDUCATION

Suleyman Demirel University

September 2024 - Present

Master of Computer Science

- Skills: Machine Learning • Programming • Advanced Python • Management • Psychology
- GPA: in progress

Astana IT University

September 2021 - June 2024

Bachelor of Cybersecurity

- Skills: Web Development · Linux · Cybersecurity · Assembly Language · Network Security · C++ · Information Technology · Information Security · Python · SQL · Cryptography · Software Development · Bootstrap · Java
- GPA: 3.37

SKILLS

Python, Rust, JavaScript, Git, PostgreSQL, MongoDB, Windows, Linux, AWS, Docker, Kubernetes.

LANGUAGES

English (Fluent, Conversational), **Kazakh** (Native), **Russian** (Fluent, Conversational)

CERTIFICATIONS

Google Cybersecurity Professional

February 2024

Google

[Show Credential](#)

CCNA: Switching, Routing, and Wireless Essentials

February 2023

Cisco

[Show Credential](#)

Network Security

November 2023

Cisco

[Show Credential](#)

PROJECTS

passwordcheck

PostgreSQL passwordcheck
implementation

<https://github.com/tuchaVshortah/passwordcheck>

Written in C

ARP spoofing detector

<https://github.com/tuchaVshortah/arp-spoofing-detector-rs>

A program that detects the ARP spoofing attack in a local or corporate network. Sends logs back to a Syslog compatible server.

puff

<https://github.com/tuchaVshortah/puff>

Yet another passive subdomain enumeration tool