# Karim Valiev

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🇬🇧 UK Global Talent visa holder, based in 🇬🇪 Tbilisi, Georgia

## Summary

10+ years in cybersecurity / engineering. Deep hands-on with Python, Linux, networking and DBs. Built security tools and designed infrastructure at scale. Experienced in leading technical teams and mentoring engineers while staying deeply involved in the code.

## 🛠️ Core Skills

- **Dev:** Python, Go, C/C++, Linux kernel & eBPF, Docker/K8s, KVM/QEMU, CI/CD (Ansible, GitHub Actions), MySQL, Elasticsearch, AWS & GCP
- **Networking:** TCP/IP (L2–L4), Firewalls, datacenter & office networks, VLANs, scapy
- **Security:** Pentesting & Bug Bounty, Incident Response / SOC, Vuln Mgmt & Code Audits, PKI & Cryptography
- **Mobile / IoT:** Android internals (NDK, Magisk, Frida), ESP8266/ESP32, Bluetooth & Zigbee, Home Assistant & esphome
- **Leadership:** 7 yrs tech management — hiring, mentoring, project & security program delivery

## 💼 Experience

**Founder & Developer, Attack Surface Management Tool** (2022–now)

- Built full-stack attack-surface scanner: Python scheduler + custom & OSS modules, mapping 100k+ hosts in real time
- Tuned pipeline to sustain 99% CPU / 90% RAM under load, with congestion and packet-loss controls; results indexed in MySQL and Elasticsearch
- One-click deploy (Ansible, Docker, GitHub Actions) on cloud + bare-metal; React dashboard and Telegram alerts; full test/profiling suite

**CISO, VK / Mail.Ru** (2017–2021)

- Built company-wide security program for 100+ products; scaled team 7 → 50, established per-product security units, and launched a 24×7 SOC + IR center
- Hardened infrastructure: per-service firewalls, YubiKey-based SSH/VPN, certificate Wi-Fi, automated vuln scanning; built and ran a top-7 global HackerOne bug-bounty and recurring 3rd-party red-team exercises
- Led incident response for major breaches, drove M&A security, and served as public security ambassador (conferences, crisis comms, CTF team)

**Security Team Lead, Mail.Ru email and portal BU, VK** (2014–2017)
**Security Analyst, Mail.Ru email and portal BU, VK** (2013–2014)
**Software Developer, Stream.Ru** (2012–2013)

## 🌍 Community & Recognition

- **Public speaking:**
  - Launch is Tomorrow podcast – modern auth (2024), security at scale (2019)
  - Standoff conf – panel on cybersecurity careers (2021)
  - Previous talks – applied crypto (2017), social media monitoring (2014), scanner benchmarking (2012)

- **Open-source:**
  Bugfixes to public projects: Ansible community.general (2025, included in Ansible), Nuclei scanner (2023), SQLAlchemy (2022), html5lib (2013), MediaInfo (2013)

- **CTF:**
  Founded VK team – ranked #7 in Russia (2020–2021)
  Former core player, MSU "Bushwhackers" – multiple #1 RU/international wins (2010–2015)

- **Vulnerability research:**
  Featured in Halls of Fame from Google, Yandex, Mozilla, Microsoft, Alibaba and Salesforce (2015–2021)

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## 🎓 Education

**M.Sc. Mathematics & Computer Science**, Moscow State University (2008–2013)