

# Irem Kuyucu

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## EXPERIENCE

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- **Rocket Software** Vilnius, Lithuania · Remote  
*Security Engineer* *December 2024 – Present*
  - **Vulnerability management:** Assessing vulnerabilities and risk in infrastructure and products.
  - **Compliance:** Mainly NIST and FIPS.
  - **Penetration testing:** Conducting penetration tests, applying remediations and coordinating pentests by third-parties.
- **Digilol** Tallinn, Estonia · Remote  
*Freelance Fullstack Developer & Penetration Tester* *Oct 2022 – Present*
  - **Backend development:** Programming in Go, C, and Python, focusing on API server development, hardware programming, and payment gateway integrations. Using gRPC, MQTT, and RabbitMQ for RPC, and utilizing CockroachDB, PostgreSQL, Redis, and MariaDB for storage.
  - **Frontend development:** Using Vue.js and React to create dynamic web and desktop applications.
  - **System administration:** Managing customers' servers, databases and Kubernetes clusters. Monitoring using Grafana and ensuring SLAs are met.
  - **Penetration testing:** Performing penetration tests on customer applications/infrastructure and writing reports.
- **Surfshark** Vilnius, Lithuania · Hybrid  
*Penetration Tester* *Mar 2023 – May 2024*
  - **Application pentesting:** Pentested web, mobile and desktop applications using vulnerability scanners, fuzzers and by manual testing. Used various tools such as Metasploit Framework, Burp Suite, Nessus, Nuclei, OWASP ZAP, Ghidra and Frida.
  - **"Purple-teaming":** Configured and tested firewalls and SIEM/EDR solutions (Wazuh, Falco, Cortex XDR, SentinelOne) using malware samples, MITRE ATT&CK simulations and C2s.
  - **Infrastructure and network pentesting:** Performed network/WiFi pentests, hardened infrastructure in cloud (AWS, GCP) and bare metal.
  - **Phishing campaigns:** Executed phishing campaigns in various forms using Gophish, Knowbe4 and custom-made backends.
- **Surfshark** Vilnius, Lithuania · Hybrid  
*System Administrator* *Feb 2022 – Mar 2023*
  - **Ansible, CI/CD and containerization:** Wrote multi-role Ansible playbooks, GitLab CI/CD pipelines, creation of custom Docker images.
  - **Monitoring:** Administered Grafana, Prometheus, InfluxDB and M3, wrote custom exporters.
  - **On-premises and cloud:** Worked with Proxmox VE clusters and AWS. Managed VMs and LXC/LXD containers.
  - **Go programming:** Programmed internal tooling, scrapers and custom proxies.
- **Cake Labs** Charlestown, Nevis · Remote  
*Freelance Backend Developer* *Mar 2022 – Jun 2022*
  - **API:** Built the backend of a call/SMS forwarding service in Go. Implemented REST APIs to integrate in a marketplace application.
  - **Twilio and SendGrid:** Integrated Twilio and SendGrid APIs for SMS and eSIM services.
  - **Payment processing:** Implemented a payment system for handling Monero cryptocurrency payments and monthly subscriptions.

## CERTIFICATIONS

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- **Certified Kubernetes Administrator (CKA)**  
*Verification code: LF-yw3qourlmu* *Mar 2025 – Mar 2027*
- **CompTIA PenTest+**  
*Verification code: YD5S3GFRJFRQ1TSZ* *Jan 2024 – Jan 2027*

## EDUCATION

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- **Vilnius Gediminas Technical University** Vilnius, Lithuania  
*Bachelor's Degree in Informatics; Information Technologies* *Sep 2021 – Present*