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Sanzhar Yeleuov

Cyber Security Engineer

GitHub: yelsanya
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Cyber security engineer passionate about software security, network security and privacy. CTF enthusiast specialized in web, with experience in organizing and hosting internal CTF. Additionally I possess:

- Experience with security toolkits such as DefectDojo, SemGrep, Nuclei, RESTler and BurpSuite
- Experience in developing scripts using Python and Bash
- Experience with software security audit of code written in JavaScript (Node.js)

EDUCATION

Ulsan National Institute of Science and Technology (UNIST)

SEP 2016 — AUG 2020

Bachelor of Computer Science

Ulsan, South Korea

- Global Unistar Scholarship (Full tuition + 300,000 KRW/month)

Aalto University and NTNU Joint Master Degree in Security and Cloud Computing (SECULO)

SEP 2022 — AUG 2024 (expected)

Master's of Computer Science

Aalto, Finland | Trondheim, Norway

- Erasmus Mundus Scholarship (Full tuition + 1000 EUR/month)

EXPERIENCE

Research Assistant

JUN 2023 — AUG 2023

Aalto University

Espoo, Finland

- Researched use cases and open source implementations of MACSEC

Security Testing Engineer

OCT 2021 — SEP 2022

R-VISION

Remote/Moscow, Russia

- Customized security tooling (i.e. DefectDojo and RESTler) to allow integration
- Implemented security jobs using scripting languages (Bash, Python) and automated using Gitlab CI and Jenkins
- Integrated weekly API fuzzing using RESTler
- Wrote custom rules/templates for vulnerabilities detection using static analysis tool (SemGrep) and scanner (Nuclei)
- Conducted periodic penetration tests of the products

Information Security Engineer

DEC 2020 — AUG 2021

KazDream Technologies

Nur-Sultan, Kazakhstan

- Conducted internal and external penetration tests for clients from private and government sectors
- Conducted code security audit of company products

Research Assistant

APR 2019 — JAN 2020

UNIST Computer Systems Security Lab

Ulsan, South Korea

- Conducted research in a Computer Systems Security Lab under direction of Prof. Hyungon Moon
- Publications:
 - “Ambassy: A Runtime Framework to Delegate Trusted Applications in an ARM/FPGA Hybrid System” IEEE Transactions on Mobile Computing

PROJECTS

R-Vision web security club

OWASP Top 10

- Every 2 weeks I was hosting webinars about web security covering 2017 and 2021 versions of OWASP Top 10, as well as usage of security tooling
- We correlated start of the webinars with drop of newly introduced SQLi and XSS vulnerabilities to 0, as well as with significant growth of security vulnerabilities identified by quality assurance team

Internal CTF

OWASP Top 10, Docker, Node.js, Flask

- I organized internal CTF for R-Vision company to raise interest in web security club, as well as in security in general
- I deployed CTFd server and developed multiple web security related challenges using Node.js and Flask
- I collaborated with colleagues from HR and design team to organize prizes in the form of company swag and to create a design of event related T-shirts for all participants

Impact of COVID-19 on economics

JavaScript, Vega-Lite

- Interactive web application that allows to visualize data of various countries related to COVID-19 and economic indicators such as GDP and stock prices on different time slices

INTERESTS

Computer Systems Security

Formal Verification of Privacy

Ethics