

Kaloyan Stefanov

JUNIOR SOFTWARE ENGINEER

Portfolio kaloyan-stefanov.pages.dev

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EXPERIENCE

Software Engineering Intern — Sirma Academy, Sofia

June 2026 – September 2026

Developed a cybersecurity vulnerability scanner that points at a company's codebase and returns a list of what could get it breached: leaked API keys and credentials, and dependencies with publicly known vulnerabilities.

- Built 3 of its 4 components — the scanning engine, the command-line tool (CLI) and the web interface — covering 10 package ecosystems, while a teammate built the credential-scanning half.
- Ranked findings by real-world exploit risk, not just theoretical severity, using CVSS base scores and industry threat feeds (CISA KEV, EPSS).
- Reworked scanning to run in parallel — a six-project run went from 25 seconds to 9 — and added support for scanning a single repository or an entire GitHub organization at once.
- Set up CI/CD with GitHub Actions: automated tests on every push, the tool scanning its own codebase, and tag-triggered releases.
- Packaged it as a one-command install with multiple output formats (SARIF, SBOM, Markdown) and wired it into build pipelines, so a team can block risky code before it merges.

Source: github.com/YordanStankov/Secrets-Dependency-Vulnerability-Scanner

PROJECTS

Metal Montaj — website for a Sofia metalwork workshop

August – September 2026

Client project · metalmontaj.com

- Took a real client's site from idea to launch: plain JavaScript with no framework for fast load times, in 2 languages, Bulgarian and English, hosted on Cloudflare for its built-in WAF and DDoS protection.
- Built the contact form's server-side handling so enquiries reach the owner's inbox directly, with spam protection and no third-party service.
- Built a filterable photo gallery of 30 catalogued pieces with a full-screen viewer, navigable by keyboard.
- Set the site up to be found on Google with structured data and a sitemap, and added GDPR compliance.

Calisthenics Tracker — workout logging app

2026

Personal project · calisthenics-tracker-frontend.vercel.app

- Built the whole application front to back — a Python and PostgreSQL backend with secure sign-in, including Google login — and deployed it live.
- Added 6 features over 29 iterations — personal records, rest timer, unit switching, preset routines, activity heatmap and progress charts — and made it installable on a phone.

STRENGTHS

- **Teamwork** — agreed a shared interface with the other intern up front on the security scanner, so two people building separate halves independently still merged into one working tool.
- **Working with non-technical clients** — turned a workshop owner's brief into a live site, wrote the Bulgarian copy for his market, and reworked the design on his feedback.
- **Adaptability** — picked up React during the internship and used it to ship the scanner's web interface alongside the Python engine work.
- **Offensive security fundamentals** — Top 15% rank on TryHackMe across 30 completed rooms, including network reconnaissance (Nmap), web enumeration (content discovery, subdomain enumeration) and common web vulnerabilities (IDOR, authentication bypass).

TryHackMe: tryhackme.com/p/kelion

EDUCATION

BSc Network Technologies — New Bulgarian University, Sofia

September 2025 – Present

Network Technician — Vocational School of Electronics “John Atanasoff”, Sofia

2020 – 2025

Cisco CCNA levels 1–3 completed.

LANGUAGES & TECHNOLOGIES

Languages	Python, JavaScript, C++, SQL	Backend	FastAPI, Node.js, Express, REST APIs
Frontend	React, Vite, HTML, CSS	Databases	PostgreSQL, SQLAlchemy, MongoDB
Tools	Git, GitHub Actions, pytest, Linux, Cisco IOS, Nmap, Metasploit	Spoken	Bulgarian (native), English (C1)