Samuel Vespalec

Vancouver, British Columbia

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SKILLS

C, C++, C#, Python, D, Javascript, Typescript, Go, SQL, React, Bun, Vite, Boost, Zydis, Flask, FastAPI, ImGUI, MongoDB, Git, Docker, Woodpecker, Jenkins, GitHub, Visual Studio, Linux, CI/CD, Webpack, IDA, x64dbg, GitLab, Ghidra, Binary Ninja, Visual Studio Code, ReClass, Cheat Engine, GitHub Actions, Kubernetes, Microservices, RabbitMQ, Wireshark, VMware, Hyper-V, VirtualBox, WinDbg, NGINX, Caddy, Redis, PostgreSQL, SQLite, Express.js, Insomnia, Postman, Node.js

WORK EXPERIENCE

Monelite Oy   **May 2018 - Dec 2021**
Backend Engineer   *Finland*

- Engineered sophisticated in-house systems to detect and prevent video game cheats, enhancing game integrity and player experience.

CyberPatriot   **Nov 2018 - Feb 2019**
Team Member   *Burnaby, Canada*

- Engineered solutions for complex security flaws and system misconfigurations.
- Developed and executed team-wide action plans, securing top 50 placement in North-America out of thousands of participating teams.

Delta Studios LLC   **Apr 2022 - Sep 2022**
Backend Engineer   *Florida, United States*

- Crafted innovative checks to secure the JVM and detect anomalies in player behavior.
- Innovated unique detections to combat macro/input automation.

PROJECTS

Nexus Shield   **Oct 2024 - Dec 2024**
https://github.com/svespalec/NexusShield

- Advanced malware detection system combining both manual and LLM analysis using Google Gemini models and custom PE parsers.

Sentry   **Jan 2025 - Jan 2025**
https://github.com/svespalec/Sentry

- Kernel driver that both detects and prevents direct syscalls, commonly used by malware to bypass EDR/AV solutions

FastAPI Enterprise Template   **Jan 2025 - Jan 2025**
https://github.com/svespalec/FastAPI-Enterprise-Template

- Enterprise FastAPI template designed for modern development teams who need a robust, scalable foundation for their next API.

EDUCATION

Cisco Networking Academy   **Sep 2018 - Jun 2020**
Comprehensive training in network infrastructure, security protocols, and enterprise networking solutions

PaloAlto Cybersecurity Academy   **Sep 2019 - Jun 2020**
Specialized training in threat prevention, network security, and cybersecurity best practices

CERTIFICATIONS

CompTIA A+
Industry-standard certification validating comprehensive IT hardware and software troubleshooting skills.

CompTIA Network+
Professional certification demonstrating expertise in designing, implementing, and maintaining network infrastructure.

CompTIA Security+
Advanced certification verifying proficiency in cybersecurity concepts, threat detection, and risk mitigation.

Palo Alto PCCET
Entry-level certification showcasing fundamental knowledge of cybersecurity principles and network security operations.