

# Samuel Vespalec

Vancouver, British Columbia

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## SUMMARY

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Backend Engineer specializing in anti-cheat and security solutions, with 6+ years of experience developing sophisticated detection systems and enterprise-level applications using Python and C++.

## SKILLS

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C, C++, Python, Javascript, Typescript, SQL, Flask, FastAPI, MongoDB, Git, Docker, Woodpecker, GitHub, Visual Studio, Linux, CI/CD, GitHub Actions, Kubernetes, RabbitMQ, NGINX, Caddy, Redis, PostgreSQL, Express.js, Node.js, CMake

## WORK EXPERIENCE

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

- Engineered sophisticated in-house systems to detect and prevent cheating, 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 out of thousands of participating teams.

**Delta Studios LLC** **Apr 2022 - Sep 2022**  
Backend Engineer *Remote*

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

## PROJECTS

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

- Advanced malware detection system combining manual and LLM analysis using Google Gemini with a custom PE parser.

**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

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**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

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**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.