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# Colin Knapp

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**Focus:** DevSecOps & Security Infrastructure

**Location:** Kitchener-Waterloo, Ontario, Canada

**Contact:** [Contact via MotherboardRepair.ca](mailto:colin@motherboardrepair.ca)

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## Professional Summary

DevSecOps consultant with extensive experience architecting secure, resilient infrastructure for government and healthcare clients. Expertise in compliance standards (WCAG 2.0 AA, CIS Level 1/2), security automation, and building geographically redundant systems. Proven track record of implementing Docker-based solutions and automated security tooling for enterprise environments.

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## Key Achievements

- **Government Infrastructure:** Delivered WCAG 2.0 AA compliant learning management systems for US government clients through [Addis Enterprises](#) (2019-Present).
- **DNS Resilience:** Architected geographically redundant DNS cluster for [Bishop Airport](#) achieving A+ standard, capable of withstanding extreme disruptions including nuclear scenarios.

- **Security Automation:** Created Docker-based utility for automated [WordPress malware removal](#), reducing infection frequency from daily to zero (2023).
  - **Healthcare Compliance:** Implemented CIS Level 1 and 2 security standards for [Improving MI Practices](#) healthcare education platform.
  - **CI/CD Infrastructure:** Established Jenkins CI/CD pipeline in 2013 that continues running the IntellectualSites open source ecosystem supporting a \$5 billion gaming brand.
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## Relevant Experience

### DevSecOps Consultant

Addis Enterprises

2019-Present

- Delivered WCAG 2.0 AA compliant learning management systems for US government clients
- Architected geographically redundant DNS infrastructure for Bishop Airport (bishopairport.org)
- Developed automated malware eradication tools for healthcare platforms
- Implemented CIS Level 1 and 2 security standards across multiple client environments
- Designed secure, scalable infrastructure for healthcare education content delivery

### Founder

ViperWire.ca

2023-Present

- Building AI-powered cybersecurity consultancy for enterprise-grade security
- Developing AI-augmented security analysis systems

- Creating scalable security solutions for SMBs

## Chief of Operations / VP / Co-Founder

Nitric Concepts

2018-2021

- Implemented DevSecOps practices using Docker, Fail2Ban, and Salt Stack for high-traffic gaming environments
- Established CI/CD pipelines and security practices for enterprise-scale gaming infrastructure
- Managed security for distributed team operations across multiple timezones

## Infrastructure Engineer

Self-Hosted Infrastructure

2020-Present

- Built comprehensive home infrastructure cluster using repurposed MacMini hardware for complete data sovereignty
- Self-hosted critical infrastructure including email, DNS, and over 100 additional services
- Developed WireGuard mesh networking tool for quantum-resistant networking deployment
- Regularly run Woodpecker CI and Gitea for on-premise source management, testing, and deployment

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## Technical Skills

- **Containerization:** Docker, Docker Swarm, container orchestration
- **CI/CD:** Jenkins, Woodpecker CI, GitLab CI/CD, automated deployment pipelines

- **Security:** Fail2Ban, malware detection/removal, security hardening, penetration testing
  - **Infrastructure:** Salt Stack, DNS (BIND, PowerDNS), WireGuard, bare-metal servers
  - **Compliance:** WCAG 2.0 AA, CIS Level 1/2, government security standards
  - **Monitoring:** High availability systems, automated monitoring, incident response
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## Notable Projects

- [Bishop Airport DNS Infrastructure](#) - Geographically redundant A+ rated DNS cluster
  - [Improving MI Practices](#) - HIPAA-aware healthcare education platform
  - [WordPress Security Automation](#) - Docker-based malware eradication tool
  - [Nuclear-Resistant DNS](#) - Extreme resilience infrastructure design
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