

# JONATHAN MARIEN

Cyber security graduate and full-stack security engineer; specialty in DevSecOps.

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## I. EXPERIENCE

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### D-Sports | Transforming the Digital Sports Fan Landscape . . . . . Oct 2025 – Present CTO (Chief Technology Officer) – Pre-Revenue Startup (Remote) – Ave Maria, Florida, USA

- **Founding CTO** for a sports-tech startup; spearhead end-to-end technical strategy by defining the product roadmap, evaluating infrastructure decisions, and aligning engineering output with business objectives, resulting in accelerated delivery of the native app.
- Architect and deliver secure, scalable products across native mobile and web platforms by embedding security-by-design principles into the SDLC from day one, reducing the attack surface before code reaches production.
- Lead, mentored, and grew an engineering team by establishing clear technical standards, running code reviews, and fostering a culture of continuous learning, enabling junior engineers to ship production-ready features independently.
- Collaborate with design and product leads to translate business requirements into concrete technical specifications, cutting ambiguity and eliminating scope creep before sprint kickoff.

### Senior Project Manager & Security Engineer Jul 2025 – Oct 2025

- Streamlined project workflows and delivery timelines by implementing structured sprint cycles in Linear and automating status reporting via Discord, reducing delivery delays and keeping cross-functional stakeholders aligned.
- Reduced vulnerability mean-time-to-remediation by 50% by embedding security checkpoints throughout the SDLC, including automated dependency scanning, secret detection, & OWASP-aligned code review gates in CI/CD pipelines.

### Hackalyst | Helping Sponsors Connect with Hackathons . . . . . June 2025 – April 2026 Security Lead – Pro Bono Mississauga, ON, CA

- Security lead for the full Hackalyst stack (React 19 frontend, FastAPI backend, MongoDB, Traefik load balancer), designed and enforced a layered security architecture with Clerk enterprise authentication, reducing unauthorized access vectors across all service boundaries.
- Reduced remediation time of vulnerabilities by 80% by integrating Infisical secrets management into CI/CD pipelines, eliminating hardcoded credentials, and replacing manual secret rotation with automated, policy-enforced workflows.
- Established hardened CI/CD pipelines using GitHub Actions with container scanning, dependency auditing, and staged deployment gates, ensuring zero-downtime releases while maintaining a continuous security posture across all environments.

## II. COMMUNITY INVOLVEMENT

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### ISSessions | 1300+ Member InfoSec Club from Sheridan College . . . . . Apr 2025 – Apr 2026 Club Coordinator – Volunteer Oakville, ON, CA

- Volunteer coordinator for Canada’s largest, and Sheridan’s oldest post-secondary security club (over 1,300 members): planning inter and intra-collegiate events, helping manage exec teams, and growing external partnerships with sponsors.
- Designed and deployed 22 fantasy-themed CTF challenges across 6 categories (Crypto, Programming, OSINT, Rev, LLM Security, Misc) using Python, Docker, FastAPI, and Gemini 2.5 Flash, with full dynamic scoring and Dockerized network challenge infrastructure.

### Executive Producer – Volunteer Apr 2024 – Apr 2025

- Produced multi-platform event broadcasts (YouTube + Discord simultaneously) by building automated post-production workflows using OBS, cutting post-event editing and publishing time from 5 days to 3 hours per session.
- Helped organize and produce ISSessions CTF programming across multiple years; A/V production with OBS, CTFd infrastructure support, and automated broadcast workflows that cut post-production time from 5 days to 3 hours.

**BearHacks — Sheridan College | Themed Hackathon** . . . . . **Feb 2025 – Apr 2026**  
Co-Chair, Dev Lead & Core Organizer Mississauga, ON, CA

- Co-chaired Sheridan College’s first-ever hybrid hackathon (BearHacks 2025), **planning and executing in under 4 weeks**; returned in 2026 as Dev Lead, overseeing attendee/admin portals and backend API serving **200+ hackers**.
- Designed and deployed a FastAPI/Supabase backend powering the full BearHacks 2026 platform; features included portal auth, QR claiming, hacker profiles, social networking, admin tooling, email campaigns, and **Apple/Google Wallet passes, handling 28.4K requests across 7 deploys with 0% error rate**.
- Built and shipped a Day 1 boba/momo ordering flow processing **200+ orders at 95%+ reliability**, and attendee portals with **29K edge requests, 97.9% cache hit rate, and 0% errors/timeouts** during the live event window.

**III. PROJECTS**

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**Personal Portfolio (chron0.tech)** . . . . . **Apr 2026 – Present**  
Next.js · TypeScript · Vite · Vercel · ~70 commits

- Designed and built a terminal-inspired portfolio showcasing projects, security research, community work, and contact links in a compact editor-style layout at (*chron0’s portfolio*).
- Implemented featured/archived projects, CVE findings, CTF writeups, community involvement, and a contact directory, helping recruiters quickly assess technical depth and impact.

**Nexus C2 (Educational C2 Lab)** . . . . . **Feb 2026 – Present**  
Python 3 · cryptography (Fernet) · Rich · stdlib HTTP · pytest · uv

- Designed an educational C2 lab with a threaded HTTP server and Rich TUI console, using Fernet-encrypted tasking, token auth, and per-IP rate limiting for realistic operator workflows.
- Implemented cross-platform deployment with generated stagers, hardware fingerprinting, and artifact handling for authorized security research and defensive detection awareness.

**Capstone: Automotive RF/NFC Security Monitor** . . . . . **Jan 2025 – Aug 2025**  
Python 3.11 · RTL-SDR V4 · Raspberry Pi Pico W · NumPy/SciPy · Rich · pytest

- Developed a vehicle anti-theft monitor using RTL-SDR and real-time FFT analysis at 315/433 MHz to detect relay, jamming, and injection attacks, achieving >90% detection accuracy across 109+ tests.
- Engineered an RF-NFC correlation engine on Raspberry Pi Pico W that cross-referenced wireless and proximity events to identify attack patterns missed by either sensor alone.

**Writeups/Notes (quartz.chron0.tech)** . . . . . **Jan 2023 – Present**  
Quartz v4 · TypeScript · SCSS · xterm.js · Bun · Cloudflare Pages

- Built a customized Quartz v4 digital garden with an embedded xterm.js terminal, 8 dynamic CRT/matrix themes, and a Bun-optimized build pipeline, hosting active security writeups and CTF solutions with 100+ commits.
- Authored ongoing technical vulnerability research, CTF writeups, and exploit chain breakdowns, building a public knowledge base for the infosec community at (*chron0’s notes*).

**IV. CORE COMPETENCIES**

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**Programming Languages:** Python · Rust · Go · TypeScript · React/React Native · Java · C · SQL · Assembly · Bash/PowerShell.  
**Security:** Burp Suite · Ghidra · Wireshark · Metasploit · OWASP · NIST · CVSS · IAM (Clerk) · Secrets (Infisical).  
**Web & Blockchain:** Next.js · FastAPI · Solidity · Solana · Web3.js · Tailwind CSS · shadcn/ui.  
**DevSecOps:** Docker · DigitalOcean · GitHub Actions · Traefik · Vercel · nginx · Linux Admin · Bun.  
**AI & LLMs:** Cursor · Windsurf · Warp CLI · Gemini CLI · Codex · Perplexity · Prompt & Context Engineering  
**Soft Skills:** Technical Leadership · Risk Communication · Project Management (Jira/Linear) · Public Speaking.  
**Certifications:** BSCP (Burp Suite Certified Practitioner) - In progress. Estimated completion May 2026.

**V. EDUCATION**

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**Sheridan College - Institute of Technology, Oakville, Canada** . . . . . **2021 – 2025**  
Honours Bachelor of Information Sciences (Cyber Security)  
Undergraduate Certificate in Resilience, Ethics, & Adaptation