

# NATHAN ACKS

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## BREAKER OF THINGS

Security Solutions | Organizational Leadership | Service Excellence

Master's educated IT security professional.

### AREAS OF EXPERTISE

- Vulnerability Assessments
- Investigations & Research
- Security Audits
- Technical Project Management
- Risk Analysis & Management
- Information Security Management
- Technical Documentation
- Strategic Business Partnerships
- Strategy & Execution
- IT Security Programs
- Stakeholder Communication
- Vendor Relationships

### TECHNICAL PROFICIENCY

Penetration Testing: Burp Suite, Kali Linux, Metasploit, Python, Raspberry Pi  
Cybersecurity: Incident Response, PCI DSS, Security Policy  
IT Operations: Bash, Cloud Computing, Computer Networking, Database Administration, Database Design, Documentation, Google Cloud Platform, Google Workspace, Linux System Administration, MySQL, Office 365 Administration, PL/SQL, SQL, Technical Support, Web Servers, Windows Server, Zoom

### CERTIFICATIONS

CompTIA Security+ (2022)

### PROFESSIONAL EXPERIENCE

**SECURITY INNOVATION, Denver, CO** 2022 – Present

**Security Engineer I (2022 – Present)**

- Worked closely with other application security engineers to perform reviews and tests on Web and Conventional applications as well as embedded, firmware, mobile, and more.
- Used a combination of manual and automated techniques to assess risks and circumvent security mechanisms of devices and applications.
- Created threat models that resulted in more secure application design.
- Designed and developed security testing scenarios.
- Analyzed and presented results of testing to team members, managers, and customers.
- Wrote detailed problem reports, test plan documents, and mitigation recommendations as needed.
- Developed tools to aid penetration test automation and effectiveness.
- Reviewed code for common security vulnerabilities.

**THE PUBLIC INTEREST NETWORK, Denver, CO** 2009 – 2022

**Director of IT (2016 – 2022)**

- Founded and oversaw the organization's IT & Security team, crafting organization-wide security policies in collaboration with the Legal team and the President's Office.
- Wrote and maintained IT and security-related documentation and trainings.
- Held bottom-line responsibility for the roll-out, maintenance, security, and support of IT systems used by all staff, including email, user authentication, document management, and custom internal applications.
- Served as the technical point-of-contact for IT-related PCI DSS issues, investigated and remediated potential IT security incidents, and maintained IT and security-related documentation and trainings.
- Notable achievements while in the position have included:
  - Developed and implemented a security tier system for offices and staff to rationalize existing IT and physical security policies.
  - Created an internal system for the provisioning and management of the full lifecycle for accounts in services managed by the IT & Security team.
  - Oversaw the successful migration from a legacy vendor email system to Google Workspace, and from a legacy LDAP system to Okta.
  - Managed the successful roll-out of two-factor authentication to the staff, the transition to Microsoft 365, and the migration of multiple office-based phone systems nationwide.
  - Upgraded and managed office networks nationwide.

***Manager of Online Outreach Technology (2009 – 2016)***

- Served as the key point on data analysis, database development, and IT vendor management for the organization's digital organizing program.
- Evaluated and developed new organizing tools and reports for the Digital team and created a customer Perl script to generate constituent mass-mailings.
- Managed multiple Ubuntu, CentOS, and Arch Linux servers running mission-critical applications, including LDAP/GOSA, MySQL, NFS, Git, Postfix, Apache, CiviCRM, WebGUI, and Tenable Security Center.
- Responsible for contractor and vendor relations for all Digital team technology, as well as associated budgets.
- Wrote/curated a large library of custom SQL and PL/SQL scripts for reporting and data import, export, and clean-up.
- Provided wide-ranging support in the development of content and outreach strategies as part of a rapid response organizing team.
- Managed the social media presence for the Recruitment team and served as the technical point-of-contact for PCI DSS and computer security issues.
- Provided general technical support for the Denver office's staff and maintained the office's network.
- Notable achievements while in the position have included:
  - Oversaw the successful migrations of an in-house constituent relationship management (CRM) and action system to Convio, followed next to Salsa and MySQL.
  - Led a successful project that integrated vendor CRM databases with a separate system hosted by ROI Solutions.

PREVIOUS EMPLOYMENT: Chaperon — U.S. Anti-Doping Agency, Apartment Manager — Equity, LLP, Retail Manager/Floor Manager/Book Seller — Tattered Cover Book Store.

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**EDUCATION**

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**Master's of Science, Applied Mathematics** — University of Colorado, Denver, CO

**Bachelor's of Science, Theoretical Physics** — University of Colorado, Denver, CO

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**COMMUNITY INVOLVEMENT**

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Yakshaver — Yak Collective (2020 – Present)  
Contributing Writer — Worldchanging (2006 – 2008)