

## CASE STUDY

"At COE Security, we build, operate, and transfer world-class security solutions, empowering businesses with resilience and trust."

Joseph Henderson



COE SECURITY LLC

USA | BRAZIL | UAE | INDIA



## CASE STUDY

### BUILDING RESILIENCE: ENTERPRISE SECURITY STRATEGY CONSULTING FOR A GLOBAL RETAIL CONGLOMERATE



# Measurable Impact Our Security in Numbers



- 1,500+ Global Engagements
- 95% Client Satisfaction
- 10+ Years of Cybersecurity Excellence
- 15K+ Critical Vulnerabilities Identified
- 1M+ Security Incidents Managed
- \$350M+ Costs Saved
- \$2.5B+ Transactions Secured
- 24/7/365 Threat Monitoring & Response
- Proactive Threat Hunting
- Cutting-Edge Security Technologies
- Dedicated Security Advisors
- Zero-Day Exploit Mitigation
- Incident Response Planning & Execution
- Security Awareness Training
- Customizable Security Solutions

**We're  
Hiring!**

## Client Profile

Key security concerns included:

- Lack of a centralized cybersecurity governance model across business units
- Fragmented incident response processes and playbooks
- Disjointed risk assessment tools and inconsistent reporting metrics
- Inadequate visibility into third-party and cloud security posture

## Challenges Faced

Key security concerns included:

- Exposure to adversarial attacks on deployed ML models
- Use of unvetted third-party AI components
- Lack of visibility into AI risk across development and production environments
- Limited readiness among DevOps and data science teams regarding AI threat mitigation

## Solution

COE Security implemented a tailored Enterprise Security Strategy & Governance Program, combining:

- Maturity Assessment & Gap Analysis: Benchmarked current capabilities against NIST CSF and ISO 27001
- Unified Security Framework Design: Created an enterprise-wide governance model with centralized policies and delegated accountability
- Third-Party & Cloud Risk Visibility Tools: Deployed integrations to monitor external risk and enforce contractual controls
- Executive Workshops & Enablement: Engaged leadership through strategy sessions and business-aligned decision-making frameworks



# Compliance & Regulatory Mastery



- ISO 45001
- HIPAA & HITRUST
- NIST & NIST 800-171
- ISO 27001
- PCI DSS
- CMMC
- CIS Controls
- SOC 2
- CCPA & NYDFS
- EU CRA
- FedRAMP
- GDPR
- UK Cyber Essentials
- Essential Eight - Australia

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## Security Architecture & Operational Improvements

- Conducted enterprise-wide risk assessments and prioritized mitigation efforts
- Designed a tiered security architecture for core operations and regional branches
- Deployed centralized SIEM integration for real-time threat detection and response
- Streamlined incident response playbooks across 10+ global business units
- Enabled secure DevSecOps practices across application teams

## Governance, Strategy & Compliance Readiness

- Established a Cybersecurity Steering Committee to drive executive alignment
- Developed a Global Cybersecurity Policy Handbook to unify standards
- Integrated risk heatmaps and maturity dashboards into CISO reporting
- Created audit-ready documentation aligned with NIST, ISO 27001, and local data privacy laws

## COE Security's Strategic Services Portfolio

- AI Security Readiness Assessment
- Secure MLOps Integration
- Model Threat Simulation (Red Teaming)
- Bias & Fairness Auditing
- Third-Party AI Component Vetting
- Secure Model Deployment Playbooks
- AI-Specific Incident Response Planning
- Training for AI Developers & Security Teams
- AI Risk Monitoring & Dashboarding



# Our Cybersecurity Arsenal: Beyond Protection- We Build Resilience



- Application Penetration Testing (Thick/Thin)
- Mobile Application Penetration Testing
- API Penetration Testing
- Network Penetration Testing
- Operational Technology Security Testing
- Cloud Penetration Testing
- AI & LLM Security Audit and Pen Testing
- Red Teaming & Social Engineering Services
- Product & Hardware Penetration Testing
- IoT Security
- Security Operations Center Services (24/7)
- Custom Security Services

## Implementation Details

- Deployed centralized GRC tools across headquarters and five major regional hubs
- Integrated third-party and cloud risk insights into the client's existing BI dashboards
- Delivered interactive training programs for 80+ global IT managers and security leads
- Authored and standardized policy manuals covering 20+ business functions

## Results Achieved

- 30% reduction in exposure to AI-related security risks
- Integrated risk monitoring across 100% of AI model deployments
- Achieved compliance alignment with emerging AI governance standards
- Increased AI security maturity score by 40% within six months

## Client Testimonial

"COE Security helped us go from reactive to proactive. Their strategy work didn't just tick compliance boxes it empowered our teams, aligned leadership, and gave us real-time visibility into our risk. We now lead our industry in cyber maturity."

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# Industries We Protect with Cutting-Edge Security



- Financial Services
- Healthcare
- Retail
- E-commerce
- Government
- Cryptocurrency
- Blockchain Technology
- Automotive
- Transportation/Logistics
- Energy & Utilities
- Hospitality/Tourism
- Entertainment/Media
- Manufacturing
- Education
- Telecommunications
- HiTech & Information Technology

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## COE Security LLC

COE Security is a leading cybersecurity services provider, offering tailored solutions to evolving threats. We enable organizations to meet compliance, reduce risk, and strengthen cyber resilience through proven methods, expert execution, and a commitment to excellence.

"Peace of mind in a world of cyber threats.  
That's what we deliver."

*Joseph Henderson*

