

## 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



## CASESTUDY

### APPLICATION SECURITY CONSULTING: STRENGTHENING SOFTWARE AGAINST CYBER THREATS



# 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

A global enterprise in the finance, healthcare, and technology sectors, developing and managing critical applications that handle sensitive customer data and business operations. The organization required a robust application security strategy to mitigate vulnerabilities and ensure compliance.

## Challenges Faced

As cyber threats targeting applications evolved, the organization struggled with:

- Application Vulnerabilities & Code Exploits Existing security gaps in web, mobile, and cloud applications increased the risk of data breaches.
- Compliance & Regulatory Requirements Needed to meet standards like OWASP, ISO 27001, GDPR, HIPAA, and PCI DSS.
- DevSecOps Integration Challenges Required a security-first approach in the software development lifecycle (SDLC) without disrupting development speed.

## Solution

The organization partnered with COE Security to implement Application Security Consulting, ensuring secure coding practices, vulnerability mitigation, and regulatory compliance.





# 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

## Comprehensive Security Posture Evaluation

- Conducted static and dynamic application security testing (SAST & DAST) to identify vulnerabilities.
- Performed penetration testing and security audits to detect weaknesses in APIs, databases, and authentication mechanisms.
- Assessed third-party and open-source components for supply chain risks.

## Secure Software Development & DevSecOps Integration

- Implemented secure coding best practices and trained developers on application security fundamentals.
- Integrated security tools into CI/CD pipelines for real-time vulnerability detection and remediation.
- Conducted threat modeling to anticipate and mitigate risks early in the development process.

## Regulatory Compliance & Governance

- Aligned application security policies with GDPR, PCI DSS, HIPAA, and industry frameworks.
- Ensured data encryption, access controls, and secure authentication to protect sensitive information.
- Provided compliance reports and gap analyses to support regulatory audits.

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Hiring!**



# 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

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## Ongoing Security Monitoring & Incident Response

- Implemented continuous monitoring for application vulnerabilities and zero-day threats.
- Developed incident response strategies to quickly contain and remediate application security breaches.
- Provided periodic security reviews and updates to align with evolving cyber threats.

## Results

With COE Security's Application Security Consulting, the organization achieved:

- Reduced Application Vulnerabilities Strengthened software against exploits, reducing the risk of cyberattacks.
- Regulatory Compliance Assurance Ensured adherence to data protection laws and industry security standards.
- Seamless DevSecOps Integration Enabled security automation in development pipelines without compromising agility.
- Enhanced Data Protection & Risk Mitigation Implemented proactive security measures to safeguard customer and business data.
- Stronger Security Culture Among Developers Fostered a security-first mindset through developer training and secure coding practices





# 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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Hiring!**

## Client Testimonial

COE Security's expertise in application security helped us identify and eliminate critical vulnerabilities in our software. Their DevSecOps integration and compliance support have been invaluable in strengthening our application security posture. Highly recommended!

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

*Joseph Henderson*

