

CASE STUDY

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

Joseph Henderson



CASESTUDY

FORTIFYING FINANCIAL SERVICES AGAINST EVOLVING CYBER THREATS

COE SECURITY LLC
USA | BRAZIL | UAE | INDIA



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 banking and financial services institution offering a wide range of products, including retail banking, wealth management, securities trading, and insurance service

Challenges Faced

As a leading player in the BFSI sector, the client faced growing risks from cybercriminals targeting financial data, customer information, and compliance with regulatory requirements. The threat landscape was evolving rapidly, with data breaches, fraud, and insider threats becoming more common. The client needed a comprehensive security solution to protect sensitive financial data, ensure compliance, and mitigate risks.

- Data Protection Safeguarding customer and financial data from breaches, leaks, and unauthorized access
- Fraud Prevention Preventing identity theft, account takeover, and transaction fraud in both online and offline services
- Regulatory Compliance Meeting stringent financial regulations like GDPR, PCI DSS, SOX, and other industry-specific cybersecurity frameworks
- Securing Transactions Ensuring the integrity and confidentiality of transactions across digital banking platforms and financial networks

Solution

The client partnered with COE Security to implement a robust, multifaceted security strategy tailored to the financial services sector, ensuring data protection 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

Financial Data Security and Encryption

- Deployed encryption and tokenization for sensitive financial data, ensuring it remained secure during transactions and storage
- Implemented advanced data loss prevention (DLP) systems to monitor and protect sensitive information from unauthorized access or breaches
- Enhanced access control policies to ensure only authorized personnel could access financial systems and sensitive customer data

Fraud Prevention and Identity Management

- Introduced multi-factor authentication (MFA) and advanced biometric systems to secure customer accounts and transactions
- Implemented machine learning algorithms to detect fraudulent activities and anomalies in real-time
- Strengthened identity verification systems to prevent account takeovers and unauthorized access to accounts

Regulatory Compliance and Reporting

- Assisted the client in meeting key regulatory requirements like GDPR, PCI DSS, SOX, and FINRA by establishing proper compliance frameworks
- Developed automated compliance reporting tools to generate detailed audit trails for both internal and external reviews
- Conducted regular audits and assessments to ensure continuous adherence to evolving regulatory standards

**We're
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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

Transaction Integrity and Cyber Defense

- Secured digital banking platforms, mobile applications, and financial networks with advanced firewalls, intrusion detection systems (IDS), and intrusion prevention systems (IPS)
- Ensured end-to-end encryption for all financial transactions to prevent interception or tampering
- Deployed continuous monitoring systems to detect and mitigate cyber threats before they could impact the client's operations

Results

With COE Security's strategic solutions, the financial services client achieved:

- Strengthened Data Protection Safeguarded customer and financial data from breaches, ensuring confidentiality and trust
- Reduced Fraud Risk Minimized fraud risk through advanced authentication and fraud detection systems
- Continuous Compliance Met regulatory standards and maintained ongoing compliance with industry regulations
- Secured Financial Transactions Protected digital banking and financial networks from unauthorized access and cyber threats

**We're
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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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Client Testimonial

Partnering with COE Security has allowed us to take a proactive approach to safeguarding our financial systems and data. Their expertise in regulatory compliance and fraud prevention has helped us maintain customer trust while keeping our operations secure and compliant.

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

Joseph Henderson

