

CASE STUDY

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

Joseph Henderson



CASESTUDY

SECURING THE FUTURE OF DIGITAL ASSETS IN AN EVOLVING BLOCKCHAIN LANDSCAPE

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

Client Profile

A rapidly growing cryptocurrency exchange offering trading services for digital assets and decentralized finance platforms

Challenges Faced

Operating in the fast-paced world of crypto and blockchain the client faced significant security and compliance challenges including

- Smart Contract Security Identifying and mitigating vulnerabilities in smart contracts to prevent exploits and financial losses
- Exchange Security Protecting digital assets from hacking attempts and insider threats while ensuring secure transactions
- Regulatory Compliance Navigating evolving global regulations such as AML KYC and SEC guidelines for crypto platforms
- Private Key and Custody Protection Implementing secure storage and access controls for user funds and institutional assets

Solution

The cryptocurrency exchange partnered with COE Security to develop a comprehensive blockchain security strategy ensuring robust protection and regulatory readiness

**We're
Hiring!**



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

Security Assessment and Smart Contract Audits

Conducted a comprehensive cybersecurity risk assessment focusing on vehicle components telematics and cloud infrastructure

- Mapped security gaps against ISO 21434 and UNECE WP29 requirements developing a tailored roadmap for compliance
- Established a secure-by-design framework for integrating cybersecurity into the vehicle development lifecycle

Exchange Security and Infrastructure Hardening

Strengthened encryption and authentication protocols for secure in-vehicle and external communications

- Implemented intrusion detection and prevention systems to monitor and respond to real-time threats
- Developed secure software update processes including digital signatures and integrity verification

Compliance and Risk Management

Assisted in meeting ISO 21434 cybersecurity standards and UNECE WP29 regulations for automotive security

- Conducted security validation and penetration testing to assess resilience against cyberattacks
- Provided training for engineering and security teams on best practices for automotive cybersecurity

**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

Custody Solutions and Incident Response Readiness

- Implemented an automotive security operations center for real-time monitoring and threat intelligence
- Developed incident response plans tailored to connected vehicle ecosystems
- Established a continuous compliance framework to adapt to emerging threats and regulatory updates

Results

With COE Security's expert guidance the cryptocurrency exchange achieved

- Enhanced Smart Contract Security Strengthened DeFi applications and blockchain protocols against exploits
- Improved Exchange Resilience Implemented robust cybersecurity measures reducing risk of unauthorized access and hacking attempts
- Regulatory Readiness Ensured compliance with evolving global standards for digital asset trading and custody
- Increased Customer Trust Built a reputation as a secure and compliant platform fostering confidence among traders and institutional investors

**We're
Hiring!**



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

**We're
Hiring!**

Client Testimonial

Partnering with COE Security was a game changer for our exchange. Their expertise in blockchain security and regulatory compliance helped us build a resilient platform that protects user assets and stays ahead of emerging threats.

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

Joseph Henderson

