David Montgomery

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I enjoy leveraging robust cybersecurity, AI, and leadership experience to develop secure, innovative solutions. And most all, learning – constantly learning.

[GitHub](#) | [Medium](#) | [NPM](#) | [TryHackMe](#) | [Portfolio](#) | [LinkedIn](#) | [SecurityLens.io](#)

Professional Experience

<u>Lead Developer – SecurityLens</u>
SecurityLens | Sep 2024 – Present | [securitylens.io](#)

Created innovative educational platform teaching cybersecurity through hands-on exploration:

- Designed beginner-friendly "Capture The Flag" style scavenger hunt introducing ethical hacking concepts
- Embedded learning challenges using steganography, Base64 encoding, and binary messages
- Implemented real-world security tool simulations with a terminal-style interface

Built comprehensive vulnerability scanning system with OWASP integration:

- Pattern-based detection for critical vulnerabilities (SQLi, XSS, command injection)
- Interactive remediation guidance with secure/insecure code examples
- Beginner-friendly severity classifications with real-world analogies

Developed security-first infrastructure:

- Dual-layer rate limiting system preventing automated attacks
- Zero-trust architecture with no data retention
- Educational error handling with detailed remediation steps

Technical Security & AI Integration Consultant
Independent | Oct 2024 – Present

Pioneered development of Model Context Protocol (MCP) servers and integrations:

- Created DeepSeek MCP Server for enhanced model reliability ([Medium Article](#))
- Developed MCP security scanner for vulnerability assessment
- Built Canvas LMS integration for educational AI deployment
- Implemented memory graph system for improved context handling

Developed Attack Vector Analysis Tool for security education:

- Interactive visualization of attack vectors and relationships
- Risk assessment system with severity scoring
- Comprehensive mapping of attack prerequisites and consequences

Created intel-npu-top, minimalist NPU monitoring tool:

- Zero-dependency design for maximum security and transparency
- Real-time performance visualization
- Containerized deployment option for cross-platform compatibility

Senior Manager
Jobot LLC | Dec 2021 – Sep 2024

- Architected and implemented pattern-based security scanning system for CRM platforms to detect phishing attempts and malicious links
- Developed automated threat detection for fraudulent job postings using regex-based pattern matching
- Integrated LLM solutions into custom CRM platforms using REST APIs and GraphQL with security-first architecture
- Led implementation of AI-driven candidate matching system with data protection measures

- Managed a team of 12 specializing in technical recruitment while maintaining security protocols
- Achieved top performance recognition among 800 recruiters

Executive Recruiter

Experis Finance | Oct 2018 – Dec 2020

- Led technical recruitment for CISA and IT Audit projects focusing on system hardening and security compliance
- Specialized in placing cybersecurity professionals for SOX compliance and security audit initiatives
- Implemented secure data handling protocols for sensitive executive information
- Developed automated systems for tracking security clearances and compliance certifications
- Served as technical advisor for cybersecurity talent acquisition in regulated industries

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Senior Staffing Consultant

Beacon Hill Staffing Group | Mar 2016 – Oct 2018

- Fastest promotion in company history after driving 300% branch revenue growth
- Implemented data analytics for market trend analysis
- Developed automated reporting systems for performance tracking

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Staffing Manager

Robert Half International – Accountemps | Nov 2014 – Mar 2016

- Developed automated candidate matching algorithms
- Implemented secure data handling protocols for sensitive information
- Set record-setting placement metrics for 11 consecutive months

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<u>Co-Founder & Head of Operations</u>
Donor Development Strategies, LLC | Jan 2007 – Nov 2014

- Implemented PCI-compliant payment processing infrastructure for nationwide fundraising operations
- Developed SHA-based encryption system for donor data while maintaining EOY tax reporting capabilities
- Created secure data pipeline for sensitive donor information across multiple markets
- Architected end-to-end encrypted database system handling 1,484+ donor records
- Led security compliance initiatives for multi-state financial operations

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Technical Skills

- Programming & Development: Python, TypeScript, JavaScript, Swift (basic), HTML, CSS, JSON, YAML
    - Tools: VS Code, Git, GitHub, XCode, Docker, Proxmox, Postman, Selenium
- AI & Machine Learning: LLM Implementation & Integration (ollama, llama.ccp, LM Studio, PyTorch), Advanced Prompt Engineering, Knowledge Distillation, Model Parallelism, Transfer Learning, Computer Vision (OpenVINO)
- Cybersecurity: Vulnerability Assessment, Static/Dynamic Code Analysis, Secure System Design, CVE Database Integration, Threat Detection Systems, Zero-Trust Architecture, PenTesting
- API Development: REST APIs, GraphQL, OpenAPI Specification, Custom API Integration

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Education & Certifications

- University of Denver (Oct 2024 – Present)
  CE Studies in AI for Cybersecurity
- M.S. in Organizational Development, Colorado State University
- B.A. in Political Science, Metropolitan State University of Denver

- ○ Concentration: American Government
- ○ Minor: Environmental Science
- Executive Leadership Training Program, Center for Creative Leadership
- CompTIA Certifications: Security+, Network+, Linux+, A+

Notable Projects

- SecurityLens.io – Open-source security education platform
- intel-npu-top – NPU monitoring toolkit
- DeepSeek MCP Server – Enhanced AI model reliability
- Attack Vector Analysis Tool – Security visualization system

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