

Travis "Mac" McCoy

Full Stack Software Engineer, Security & Trust Architect

Dayton, OH • Willing to Relocate • Security Clearance Eligible (United States Citizen)

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer specializing in security, privacy, and ethical system design. I bring a rare hybrid background that blends information security, operational safety, human-behavior analysis, and modern engineering practices. My experience in incident command and threat assessment trained me to think in continuous SWOT-style cycles and translate insights into iterative improvements that fit naturally into Scrum workflows. I'm the engineer who sees a single form field and asks how to protect the company, improve the user experience, and build long-term trust simultaneously. Focused on designing systems that anticipate misuse, strengthen public confidence, and unify security architecture, Trust & Safety, and privacy-first product design.

CORE COMPETENCIES

- Security & Compliance
- Incident Command (ICS)
- Privacy-First Architecture
- Cross-Functional Collaboration
- Trust & Safety
- Threat Modeling
- WCAG Accessibility
- Training & Mentorship
- Risk Assessment
- Data Minimization
- Role-Based Access Control
- Documentation & Audit Readiness

TECHNICAL SKILLS

Languages & Frameworks:

Python, Django, JavaScript, TypeScript, React, Next.js, SQL, PostgreSQL, FastAPI, C#, Angular, Flutter

Engineering Practices:

Test-Driven Development, Object-Oriented Design, RESTful APIs, Agile/Scrum, Code Review, Debugging, DRY Principles, Data Normalization, LLM Integration, Prompt Engineering

DevOps & Tools:

Git, GitHub, Docker, CI/CD, AWS, Google Workspace, Trello, Figma, Discord

Security & Accessibility:

Threat Modeling, Risk Assessment, Data Minimization, Privacy-First Design, WCAG Accessibility, Role-Based Access Control, Incident Command (ICS), PREA Compliance

Collaboration & Remote Work:

Async Communication, Distributed Teams, Cross-Functional Collaboration, Training & Mentorship, Documentation, Technical Writing, Stakeholder Communication

Administrative:

Microsoft Office, Google Workspace, Recordkeeping, Policy Interpretation, 51 WPM Typing

LANGUAGES

English — Native

German — Basic conversational

Spanish — Conversational (corrections/field experience)

Arabic — Reading proficiency (academic study)

TECHNICAL EXPERIENCE

Junior Developer & Security/Privacy Contributor | VolunQueer — Community Tech Platform

November 2025 - Present

- **SECURITY, PRIVACY & ACCESS CONTROL:** Authored guidelines for data minimization, consent-driven onboarding, and Role-Based Access Control (RBAC). Designed privacy-first volunteer profiles with opt-in identity fields, anonymized messaging, and transparent access tiers.
- **ACCESSIBILITY & FORM DESIGN:** Improved form UX by reducing intimidation, clarifying required fields, and aligning components with WCAG. Advocated for inclusive defaults and user autonomy in profile and application flows.
- **ARCHITECTURE & PLATFORM TRANSITION:** Participated in rebasing the platform from AWS and Supabase to a Django/PostgreSQL stack. Gained exposure to legacy infrastructure while contributing to the new backend and deployment pipeline.
- **DEBUGGING & DEVELOPER EXPERIENCE:** Built custom utilities to trace React/Django data flows, improving visibility and reducing time-to-resolution. Supported onboarding and async collaboration through documentation, commit hygiene, and communication templates.
- **DISTRIBUTED TEAMWORK:** Collaborated across time zones using GitHub, Discord, Trello, Google Workspace, and Figma. Provided peer mentorship and helped shape team norms for clarity, safety, and async progress.

Technologies: Django, PostgreSQL, TypeScript, React, Docker, AWS, WCAG Accessibility, Privacy-First Design, Security, Role-Based Access Control

AWARDS & CERTIFICATIONS

Diversity, Equity & Inclusion Training — Traliant (2025)

CPR/AED Certified — American Red Cross (2023)

George Beto Excellence Award — Texas Department of Criminal Justice (2017)

PROFESSIONAL EXPERIENCE

Correctional Officer V | Texas Department of Criminal Justice — Holliday Unit, Huntsville, TX

2017 - 2024

- **INCIDENT COMMAND & EMERGENCY RESPONSE:** Served as on-scene Incident Commander for fires, medical crises, assaults, and disturbances. Directed emergency procedures, secured movement, and delivered SITREPs.
- **STG INTELLIGENCE:** Identified recruitment patterns, prohibited iconography, and indicators of emerging STG activity. Monitored communications and property for unauthorized materials.
- **SAFETY, VULNERABILITY & DUTY OF CARE:** Identified individuals in distress and initiated protective protocols. Provided confidential guidance to individuals hesitant to report safety concerns.
- **SITUATIONAL AWARENESS & BEHAVIORAL OBSERVATION:** Assessed group dynamics and environmental cues to detect early indicators of conflict or risk. Maintained authority and calm under pressure.
- **FACILITIES & OPERATIONAL CONTINUITY:** Created work orders and supervised critical maintenance projects including power loss, HVAC failures, and plumbing emergencies. Ensured continuity during staffing shortages.
- **KITCHEN OPERATIONS & INVENTORY CONTROL:** Supervised 30-person inmate work crews producing ~2,000 meals per shift. Maintained strict inventory controls on tools, equipment, and food supplies.
- **TRAINING & DOCUMENTATION:** Served as primary shift trainer, coaching new officers on communication, boundaries, and real-world operations. Managed confidential records and contributed to ACA accreditation.

Production, QA, and Inventory Technician | KitchenAid / Whirlpool, Greenville, OH

2015 - 2017

- Worked on the KitchenAid Stand Mixer line including robotic machining, QA testing, and end-of-line verification.
- Conducted defect logging and cross-team QA reporting to support continuous improvement.
- Spearheaded inventory audits, improving supply chain reliability and reducing stock discrepancies.
- Applied Lean, Kaizen, and 5S principles to improve workflow efficiency.

Quality Inspector | Machine Operator | Moriroku North America (formerly GTI), Greenville, OH

2012 - 2015

- Maintained a flawless quality record over three years, preventing costly line stoppages.
- Inspected injection-molded components for Honda Civic and Accord to maintain Honda Quality standards.
- Operated forklifts and completed in-house safety certification.
- Used enterprise defect logging, time management, and barcode-based inventory systems.
- Every missed defect could cost \$10,000 per minute at the Marysville Assembly Plant — I was never the cause of a lost-time defect.

EDUCATION & TRAINING

Software Engineering Immersive — Certificate of Completion

General Assembly • New York, NY • August 2025

Project-based full-stack program emphasizing test-driven development, accessibility, and collaborative Git workflows. Focused on ethical system design, agile team practices, and scalable architecture. Built and deployed multiple full-stack applications using modern frameworks, CI/CD pipelines, and accessibility-first principles.

Philosophy – Pre-Law Discipline

Ohio University • Athens, OH • 2010

Coursework included ethics, logic, political theory, comparative religion, international studies, and foreign languages (Arabic and German).

Undergraduate Coursework

Wright State University • Celina, OH • 2009

Completed 72 quarter hours as a dual-enrollment student during junior and senior years of high school. Dean's List for six quarters • 3.75 cumulative GPA. Completed English Composition sequence and a comprehensive 3-term Western Civilization series emphasizing nomadic pastoralism, cultural drift, and simultaneous regional developments. Took multiple psychology courses and served as Vice President of the Psychology Society — a student-faculty discussion and excursion group.

Honors Diploma • Top 10%

Celina High School • Celina, OH • 2009

GPA 3.52 • SAT 1420 (740 Math, 680 Verbal) • ACT 31 • AP Chemistry (5). Captain of the Scholastic Team with five televised WHIO High Q appearances. Ohio Mock Trial Attorney and Junior Engineering Technology and Science (JETS) competition team captain.

SELECTED PROJECTS

Published / Shipped

StirCraft

Full-stack Django application with 245 Python tests + 23 JavaScript tests achieving 100% critical path coverage. Built advanced search, vibe-based filtering, and a data-cleaning pipeline normalizing 400+ cocktails and 325+ ingredients. Implemented inline formsets, Redis caching, and Heroku deployment.

SitesByMac.dev

Next.js 15/TypeScript portfolio with WCAG AA accessibility, dynamic content loading, automated resume PDF generation, Jest/RTL testing, and Vercel CI/CD deployment.

DreamWeaver

Node.js/Express/MongoDB backend with JWT auth, RBAC, bcrypt hashing, ownership validation, admin safeguards, and a comprehensive realistic data seeding system.

Prototyping / New Tech

HappeningHere

LLM-powered platform surfacing grassroots events, free meals, community resources, local sports, festivals, and neighborhood happenings within a zip-code radius. Optional SMS handoff for Google Maps links. Built with accessibility-first design and category-based filtering.

BidOnThis

QR-based bidding system for community events, schools, and fundraisers. Features real-time bidding, SMS winner notifications, cashless/cashbox payment options, and a projector-friendly organizer dashboard with fundraising goal tracking and sponsor placements.

Office Quartermaster

Tablet-optimized system with QR badge scanning for employee authentication and item checkout. Real-time low-stock alerts, multi-tier approval workflows (e.g., laptops require supervisor approval), audit-ready usage logs, and loss-prevention insights such as consumption anomalies and equipment lifecycle trends.