





TIM BRANSON

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PROFESSIONAL SUMMARY

Results-driven IT Security Analyst, Software Engineer, and AI Systems Builder with 10+ years designing, implementing, and optimizing scalable, secure systems and custom automation tools. Deep expertise in Python (async, Docker, GUI, AI integrations), C#, Solidity smart contracts, Red Team operations, vulnerability management, and enterprise infrastructure (VMware, SQL, AD, Intune/Mac). Proven track record building production-grade tools—including Azure SaaS platforms and agentic DLP solutions with the latest models—that deliver measurable cost savings and enhanced security/reliability. Passionate about leveraging technology for high-impact systems, creative projects, and continuous improvement. Seeking roles in AI security, code quality engineering, automation, and systems development where technical depth and initiative drive meaningful results.

CORE COMPETENCIES

Programming & Development:

- Python (async, automation, GUI/PySide6, AI integrations), C#, C++, Solidity (smart contracts), SQL, Bash/PowerShell

AI & Automation:

- Agentic systems, AI models for classification, generative AI (consistency/error checking), multi-LLM workflows, Docker containerization, scripting/automation

Security & Compliance:

- Red Team, vulnerability management, SIEM, DLP/DSPM (custom agentic solutions), secret scanning (TruffleHog/Gitleaks), code audits, risk assessment, AD auditing/mapping

Systems & Infrastructure:

- VMware/Veeam, SQL/ERP administration, Active Directory, Intune/Mac management, network mapping, disaster recovery, Azure SaaS development

Tools & Practices:

- Git (internal repo management), Ansible, Rapid7, SentinelOne, API Integrations, domain/subdomain security monitoring, performance optimization, debugging/profiling, software design principles

Education

June 2023 – present
Cambridge, USA

Massachusetts Institute of Technology (MIT)
Professional Certificate Program: Innovation and Technology

Professional Experience

March 2024 – present

IT Security Analyst

Groupe Stahls

- Developed and deployed custom Azure SaaS platform automating Active Directory Hybrid user lifecycle (creation, enable/disable, group/permissions assignment, HR offboarding) with SentinelOne API integrations for asset quarantine and control, delivering thousands in operational cost savings.
- Built a custom AI integration platform for comprehensive DLP Scanning, permission analysis, duplication detection, and full auditing; upgraded my agentic DLP solution with BERT models for data classification, tagging, and DSPM natively, to monitor shares/cloud directories for secrets/API keys and plaintext passwords with automated notifications, reporting, and TruffleHog/Gitleaks/Microsoft Purview integrations.
- Created domain/subdomain security monitoring program (site tree enumeration, crawling, dangling CNAME/DNS detection, vulnerability scanning) and Rapid7 Vector Command audit tool for organizing attack vectors; manages internal Git repositories and performs code audits and upgrades for security.
- Led vulnerability management, SIEM operations, Red Team exercises, network mapping for NetOps/developer teams, Intune/Mac infrastructure management, and custom MacOS bash automation scripts for rapid deployment and syncing; handled full-spectrum investigations and technical write-ups.

January 2024 – Present

Founder

Pixel Space Technologies LLC

- Founder of Pixel Space Technologies LLC and related ventures; actively developing open-source and commercial projects with focus on AI systems, security tooling, recovery support applications, and creative tools. Strong emphasis on initiative, continuous learning, and building production-ready solutions that solve real problems.

November 2021 –

March 2024

Gila County, USA

IT Systems Administrator

Gila County

- Owned full database administration, VMware/server management, and enterprise system operations for critical infrastructure including Supreme Court of Arizona, Sheriff's Office, body cams, jail systems, probation, ballot box security, and emergency services—ensuring high availability, disaster recovery, and performance optimization.

- Developed custom scripts, data interfaces, and automation solutions while serving as primary technical liaison and trainer across multiple departments, external vendors, and the Auditor General's Office of Arizona.

December 2021 –
present
Grand Rapids, USA

Chief Technical Officer (CTO)

P&Z Asset Management

- Architected and coded custom smart contracts on the Polygon (MATIC) blockchain to create tokenized proof-of- ownership for fractional real estate investing platforms, applying rigorous software design principles for security, scalability, and reliability in decentralized financial systems.

November 2015 –
February 2022
Payson, USA

Information Technology and Technical Services Specialist

Town of Payson

- Led complete network rebuild and custom C#/Python development for automation, web applications, database administration, and reporting— cataloging over 80,000 library items into the database while saving thousands annually and strengthening security without third-party outsourcing.
- Delivered advanced troubleshooting, user training, and infrastructure optimization across public-facing LAN/WAN, VoIP, servers, and emergency systems; managed technology budgets, projects, and volunteer teams with consistent recognition for contributions.

January 2018 –
June 2018
Payson, USA


Computer Technician

Smart Systems Inc

- Handled full bench operations for hardware, software, networks, servers, and VoIP as an MSP technician, resolving diverse client issues with rapid integration, optimization, and customer-focused service.

Projects

Key Projects & Portfolio

- DomainSentry & Custom Security Suite (Python, Docker): Built production monitoring solutions for dangling DNS/CNAME detection, vulnerability crawling, secret scanning (TruffleHog/Gitleaks), and agentic DLP with AI BERT classification—deployed enterprise-wide with automated reporting and notifications.
- StepScribe.org  / StepScribe-SaaS (Python, Supabase, Stripe): Developed and launched AI-powered recovery journaling application with memory, prompts, Inner Weather tracking, multi tenant accounts, AI sponsor guidelines, and privacy-focused design; actively iterating toward public launch.
- Project PHOENIX (Personal Hyper-Optimized Entity for Neural Intelligence and eXecution): Architecting autonomous self-hosted AI copilot system with multi-model routing, 3-tier memory + Soul Engine, agents, voice/vision/3D, and home automation (Docker stack).

- Additional Highlights: ScriptWeaver (Python + PySide6 GUI for modular scripting); C++ game engine from scratch; AI 100k-page novel creator with consistency checking and on the fly editing; custom MacOS automation; ongoing game development with Tripo3D/Blender/Nomad Sculpt.