

Brad House

Jacksonville, FL

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Senior Manager, Software Engineering, Infrastructure & Security

Seasoned manager with a 20-year track record in driving software innovation, enabling compliance, and building a robust security culture all while delivering cost savings and sustainable growth. Expertise includes creation of critical application and infrastructure architecture while building cybersecurity resilience. Effectively led diverse teams that orchestrated private cloud infrastructures while diligently adhering to changing industry compliance standards. Developed cutting edge technologies, dedicated to safeguarding customer's business assets, financial data, and critical information. Founded a successful FinTech startup and oversaw its rapid growth to ultimately handle millions of transactions and billions of dollars annually, culminating in its acquisition in 2018. Passionate about creating secure software products and continually advancing technological solutions.

Technical & Executive Leadership | Developer Management | IT Infrastructure Management
Secure Software Development | Agile Methodologies | IT Governance and Compliance | Security Assurance
Cloud Orchestration | Payment Systems | Vendor Procurement | Technical Recruitment | Ansible Automation

Professional Experience

Consulting / Independent Contractor, Jacksonville, FL

Sep 2023 – Present

- Providing development and IT consulting for payment systems.
- SONiC development and automation.

Chief Information Officer | Monetra Technologies, Jacksonville, FL

Nov 2018 – Sep 2023

A wholly owned subsidiary of i3 Verticals LLC (NASDAQ: IIIV)

- Architected a private cloud with robust redundancy, automation, and security measures, ensuring 99.999% uptime across multiple data centers.
- Oversaw the collaboration of cross-functional teams to enhance the capabilities of the core payment platforms.
- Developed highly sophisticated cryptographic solutions utilizing Hardware Security Modules (HSMs), ultimately resulting in the creation of one of the only globally validated Point-to-Point Encryption (P2PE) solutions.
- Played a central role in the development of the payment engine's core functionality by creating, evaluating, and writing C source code.
- Created holistic governance blueprints encompassing software lifecycles, IT compliance, and security positions.
- Implemented CI/CD and DevOps tooling to ensure rapid and reliable deployment of production code and systems.
- Seamlessly navigated third-party procurement intricacies, ensuring optimal value and fit.
- Liaised with enterprise stakeholders, ensuring alignment between business and technological requirements.
- Advocated for the acquisition, cultivation, and advancement of talent within the technical ranks.
- Duties also included those of acting Chief Information Security Officer (CISO).
- Achieved EMV Level 3 validations, ensuring versatile compatibility with payment terminals and processors.

Founder & Chief Technology Officer | Main Street Softworks, Gainesville, FL

Feb 2001 – Nov 2018

An innovational FinTech company acquired by i3 Verticals LLC (NASDAQ: IIIV)

- Founded and organically grew the company until it was acquired in 2018.
- Led the engineering of the payment processing software, Monetra, trusted by tens of thousands of merchants to annually handle hundreds of millions of transactions and tens of billions of dollars.
- Consulted with clientele, crafting innovative and secure solutions that met varied, customized demands.
- Delivered tailored technical counsel to elite clientele, including those in the Fortune 500.
- Performed additional duties similar to those carried out at Monetra Technologies prior to acquisition.

OpenSource Contributions

Maintainer & Principal Developer | c-ares – Asynchronous DNS Resolver Library 2017 - Present
<https://github.com/c-ares/>

- Architect and implement new features, triage software anomalies, critically evaluate and modify code submissions, and fortify against security breaches.
- Supporting over 1 billion installations to date.

Community Contributor | SONiC – Software for Open Networking in the Cloud 2024 - Present
<https://sonicfoundation.dev/>

- Contribute features and bugfixes, specifically targeting VXLAN EVPN and Automation.

Maintainer / Co-Author | mStdLib – Versatile, Cross-Platform Library in C 2013 - Present
<https://github.com/mstplib-ng/mstplib-ng>

- Design fundamental library components encompassing generic data structures, fortified buffer management, event-based I/O, multi-threading, and SQL abstraction.
- Ensure library portability across a spectrum of operating systems, spanning from Linux to Windows to MacOS.
- Undertake meticulous security reviews and architect rigorous test scenarios.

Lead Developer for Amd64 Architecture | Gentoo Linux 2003 - 2004
<https://gentoo.org>

- Architected the transition to amd64 architecture from a previously constrained 32-bit systems.
- Refined and enhanced Linux packages for optimized 64-bit operability, contributing to the core upstream codebases.
- Evaluated and addressed incoming software anomalies and enhancement proposals.

Technical Acumen

Management: Developer management | IT management | Agile methodologies | Project Management | IT Governance Policy Creation

Development: C (20+ years) | Python | Perl | PHP | C# | Java | GIT | Subversion | CI/CD (Jenkins, Cirrus-CI, GitHub Actions, AppVeyor)

Network Architecture: SONiC | Juniper SRX (7+ years) | Juniper MX (4+ years) | Juniper EX (7+ years) | Mellanox / Cumulus Linux (4+ years) | VXLAN EVPN | BGP | AnyCast | IPv6 | OSPF | Private Cloud Multi-Datacenter Architecture | IPSec | GRE | SNMP

System Administration: Linux (all major distributions, 20+ years) | SELinux | DevOps (7+ years) | System Hardening (CIS Benchmarks) | Ansible | Database (MySQL/MariaDB) | Ceph | KVM | Proxmox | FRR | Keepalived | LVM | Single Sign On (SSO) implementation (FreeIPA) | Syslog | Shell scripting

Security: PCI-DSS | PCI SSF | PCI P2PE | SOC 2 Type II | Secure SDLC | HSM (Hardware Security Module) integration and deployment | Network Scanning | PEN Testing | SIEM (Elk Stack) | Network Segmentation | 2FA/MFA implementation

Various: Payments/FinTech | EMV | High Availability Architecture

Certifications

Certified Information Systems Security Professional (CISSP)
Issued By: ISC2 Certification #: 1625572

Oct 2023 - Oct 2026