BRADLEY W. MYRICK

Senior Software Engineer - Distributed Systems & Blockchain Infrastructure

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TECHNICAL PROFILE

Systems Programming: Rust, capnp, Go, Python, TypeScript, Solidity **Distributed Systems:** Cap'n Proto RPC, gRPC,Go microservices **Blockchain Infrastructure:** EVM bytecode analysis, smart contract creation, validator operations **Cloud & DevOps:** GCP, OVH, Kubernetes, KServe, Docker, CI/CD pipelines **Security:** Capability-based authentication, smart contract auditing, bytecode reverse engineering **Development Tools:** Neovim/LSP, Git, Linux systems administration

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Deep Green X | April 2025 - Present

Oko Blockchain - Core Infrastructure - Rust/Cap'n Proto

- Architect and implement high-performance blockchain execution engine in Rust, designing modular validator architecture with Cap'n Proto RPC for sub-100ms consensus latency
- Engineer distributed backend systems handling thousands of transactions per second with Byzantine fault tolerance and automatic failover mechanisms
- Optimize memory safety and concurrency patterns using Rust's ownership model, eliminating race conditions in multi-threaded validator coordination
- Design and implement containerized workloads on Kubernetes infrastructure with automated CI/CD pipelines for zero-downtime deployments
- Build secure, performant network protocol implementations for peer-to-peer validator communication and state synchronization
- Translate complex architectural specifications into production-ready code, delivering critical blockchain infrastructure components end-to-end

KEY STRENGTHS

Performance & Security: Proven track record optimizing latency, memory usage, and gas costs while maintaining security-first design principles

Full-Stack Ownership: Independently design, architect, implement, and deploy critical infrastructure from specification to production

Mission-Critical Experience: US Army combat veteran with proven ability to execute under pressure, make rapid technical decisions, and deliver reliable systems in high-stakes environments

Senior Software Engineer | TruGard.AI (formerly Trugard.IO) | 2022 - April 2025

Blockchain Security & Analysis Platform - Python/TypeScript/Solidity

- Designed and built high-throughput ETL backend systems parsing EVM blockchains at scale, extracting and normalizing contract, wallet, and transaction data for real-time security analysis
- Reverse-engineered Solidity smart contract bytecode to assembly, producing structured security insights and vulnerability detection for Graph database ingestion
- Architected and deployed production systems on GCP with Kubernetes orchestration and KServe inference serving, achieving 99.9% uptime processing millions of blockchain transactions daily
- Integrated QuickNode blockchain data providers with custom data pipelines, reducing ingestion latency by 60% through optimized streaming architectures
- Implemented capability-based authentication and authorization system, designing zero-trust security model for multi-tenant blockchain security platform
- Engineered security-focused features including anomaly detection algorithms and contract vulnerability scanning with <5% false positive rate
- Promoted from Software Engineer to Senior Software Engineer based on technical delivery and systems architecture expertise

Software Engineer | Tacvue.io / Kodr.pro | 2019 - 2022

Web3 Infrastructure & Smart Contracts - Solidity/TypeScript

- Built production Web3 dApps and Solidity smart contracts for on-chain NFT trait assembly, whitelist management, and gas-optimized minting mechanisms deployed to Ethereum mainnet
- Developed scalable API-backed backend services using AWS infrastructure and Moralis database, handling 10k+ requests/hour with automatic scaling
- Optimized smart contract gas consumption through storage layout improvements and assembly optimizations, reducing transaction costs for end users
- Drove full-stack product development from technical architecture through production deployment, owning entire development lifecycle
- Implemented Web3 wallet integration with ethers.js, designing seamless user authentication and transaction signing flows

Diver Foreman | Underwater Construction Corp | 2014 - 2019

Critical Infrastructure & Safety Systems

- Led underwater NDT inspection and repair operations at US nuclear facilities, maintaining 100% safety compliance record in high-stakes environments
- Trained and supervised technical diving teams for Perry Nuclear Deep Dive Team, coordinating complex subsurface operations requiring precision execution
- Developed and implemented safety protocols for high-risk inspection procedures in zero-visibility, high-pressure environments

US Army Sergeant / DoD Contractor | M109A6 Technician | 2005 - 2012

Combat Operations & Technical Training

- Convoy Protection Team Lead, Iraq combat deployment (2008-2009), managing mission-critical operations under extreme pressure
- Foreign Military Technical Trainer as DoD contractor in Iraq (2011-2012), developing training programs for allied forces on advanced weapons systems
- Demonstrated leadership, rapid decision-making, and technical problem-solving in high-stakes combat environments

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EDUCATION

B.Sc., Computer Science | Full Sail University *Salutatorian, Advanced Achievement Award Recipient*

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Security & Technical:

- eJPT (eLearnSecurity Junior Penetration Tester) - Ethical Hacking
- Boot.dev Go/Python Backend Development Course
- Labrie Automated Systems Certification
- D.C.B.C. Unrestricted Diver Certification
- NDT (Non-Destructive Testing) Level I & II Certified
- Scuba Dive Master (extracurricular)

OPEN SOURCE & COMMUNITY

Technical Contributions:

- Regular live coding streams on Twitch demonstrating systems programming and blockchain development
- Technical writing and documentation for Web3 developer community

Public Work:

- Portfolio showcasing production Rust systems: kodr.pro
- GitHub: BradMyrick (blockchain infrastructure, smart contract tools, systems code)
- Twitter: kodr_pro (blockchain development, systems programming insights)