DANIEL BODNAR

SRE • INFRASTRUCTURE ENGINEER • SOLUTIONS ARCHITECT

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- Highly motivated, driven, and completely self-taught engineer with 27+ years experience as a full-stack software developer and over 18 years of Platform/Infrastructure engineering and IT automation.
- Expert in Linux ecosystem, containerization, cloud platforms (AWS/GCP), and functional programming with Effect-TS.
- Interested in growth opportunities related to low-level Linux, networking, embedded development, and optimizations empowered by FPGA and programmable hardware.

SUMMARY OF EXPERIENCE

- 27+ years of full-stack software development experience and 18+ years specializing in Platform/Infrastructure engineering.
- Architected and deployed enterprise-scale AWS solutions at Fidelity Investments with comprehensive security and compliance.
- Founded and operated BitBuilder Cloud LLC, managing custom bare-metal infrastructure with 2TB RAM and 320 cores.
- Expert in modern DevOps practices including Kubernetes orchestration, Infrastructure-as-Code, and GitOps workflows.
- Proficient in functional programming paradigms with Rust, TypeScript, and modern JavaScript frameworks.

TECHNICAL SKILLS

- **Languages:** Rust, JavaScript, TypeScript, Bash, Shell, Go
- **Cloud & Infrastructure:** AWS (CDK, CloudFormation, IAM, EKS), GCP, Kubernetes, Docker, Terraform, Ansible
- **Databases:** PostgreSQL, SQLite, DuckDB, MongoDB, MySQL
- **Monitoring:** Grafana, Prometheus, VictoriaMetrics, NetData, Jaeger, ELK Stack
- **Frontend:** Vue.js, Nuxt.js, Svelte, SolidJS, Alpine.js
- **Backend:** Node.js, Rust, Effect-TS
- **Networking:** WireGuard, ZeroTier, Tailscale, OpenVPN, BGP, Layer 2/3
- **DevOps:** GitLab CI/CD, GitHub Actions, Jenkins, GitOps, Infrastructure as Code

PROFESSIONAL EXPERIENCE

BITBUILDER CLOUD, LLC   FOUNDER, CLOUD ARCHITECT, CIO
Dallas, Texas   *2021 – Present*

Responsibilities:

- Launched a web hosting and cloud consulting private SaaS company using 5 highly customized AMD & Dell based co-located servers.
- Single-handedly built core services on co-located custom bare metal servers with over 2TB RAM, 320 cores, 64TB NVMe storage.
- Containerized and load-balanced several high-profile organizations with 1M+ global visitors/day.
- Orchestrated global scaling via multi-cloud hybrid overlay layer based on custom k8s distribution and immutable Linux systems.
- Implemented constant monitoring and observability using Grafana, Prometheus, VictoriaMetrics, NetData, and Jaeger.

`Kubernetes` `Docker` `AMD EPYC` `Dell PowerEdge` `ZFS` `NVMe` `Grafana` `Prometheus` `VictoriaMetrics` `NetData` `Jaeger` `Linux` `Bash` `Containerization` `Load Balancing`

FIDELITY INVESTMENTS   PRINCIPAL SOFTWARE, DEVOPS, AND CLOUD ENGINEER
SouthLake, TX   *2023 – 2025*

Responsibilities:

- Architected comprehensive AWS solutions for enterprise applications, including designing secure networking topologies and multi-account strategies
- Developed and implemented robust IAM policies and CloudFormation templates adhering to strict financial industry security standards
- Designed and built a full AWS CDK platform enabling teams to rapidly deploy standardized, compliant infrastructure
- Engineered Kubernetes-based deployment solutions leveraging EKS, Helm charts, and custom operators for application management

- Rebuilt and optimized the Jenkins Core platform, increasing build efficiency and reducing pipeline execution times
- Created a cloud orchestration CLI tool that simplified cross-account resource management and deployment workflows
- Successfully deployed and managed Discourse forums on Alpine Linux containers in Kubernetes, ensuring high availability and performance
- Implemented infrastructure-as-code practices across multiple teams, significantly reducing configuration drift and deployment errors
- Designed and implemented automated security scanning and compliance checking within CI/CD pipelines
- Led knowledge-sharing sessions and developed documentation to elevate team capabilities in cloud-native technologies

`AWS` `AWS CDK` `CloudFormation` `Kubernetes` `EKS` `Docker` `Jenkins` `Helm` `IAM` `Alpine Linux` `Discourse` `Infrastructure as Code` `CI/CD` `Security Scanning` `Compliance`

RSVP & ACT, INC
Denton, TX

SRE, SYSADMIN, AND PLATFORMS ENGINEER
2019 – 2021

Responsibilities:

- Managed and performance-tuned +3.5TB postgresql database cluster, MySql and SQLite databases
- Architected, deployed, and managed dynamically scaling, secure, and fully version-controlled hybrid and bare-metal kubernetes clusters
- Deployed and managed self-hosted gitlab instance with DevOps build pipelines and automatic blue-green deployments
- Implemented monitoring, alerting, logging, tracing, and observability tools
- Implemented and enforced gitlab-based Infrastructure-as-Code procedures and pipelines
- Deployed and managed multiple host, network, and container security tools and vulnerability scanners
- Simplified and standardized hypervisors with a centralized Proxmox cluster on ZFS and a 56G InfiniBand FC SAN
- Deployed W2019 AD server environment for centralized user account management
- Implemented organization-wide VPN, VLANS, and security measures
- Provided training to address knowledge-gaps and mitigated ransomware hacks

`PostgreSQL` `MySQL` `SQLite` `Kubernetes` `GitLab` `Proxmox` `ZFS` `InfiniBand` `Windows Server 2019` `Active Directory` `VPN` `VLAN` `Security Scanning` `Infrastructure as Code` `Blue-Green Deployment`

PERSPECTIVES.ORG
Pasadena, CA

IT DIRECTOR
2017 – 2019

Responsibilities:

- Developed 5 year vision, roadmap, and project plan to rebuild legacy monolithic .NET 3.5 application.
- Increased cloud hosting capacity by 10x while reducing budget by 50% through strategic optimization.
- Reduced minimum page load time from 5 seconds to an average of 0.8 seconds.
- Built a DRM-secured offline-enabled streaming video player desktop app in Go.

`.NET 3.5` `Go` `DRM` `Desktop Applications` `Cloud Hosting` `Performance Optimization` `Strategic Planning` `Legacy System Migration`

AT&T CORP.
Plano, TX

PROFESSIONAL APPLICATION DEVELOPER
2014 – 2017

Responsibilities:

- Full stack application engineer building custom web-based tools and services for enterprise operations.
- Managed entire project pipeline, from requirements gathering to production deployment.
- Led team-wide migration from Rails/MySQL stack to Node.js, Angular.js, and MongoDB.
- Engineered a Docker-based DevOps and deployment pipeline for microservices architecture.

`Ruby on Rails` `MySQL` `Node.js` `Angular.js` `MongoDB` `Docker` `DevOps` `Microservices` `Full-Stack Development` `Project Management`