

Daniel Bodnar

Contact

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Location: Denton, Texas

Education

Self-Taught Engineer

30+ Years Learning

- Systems programming
- Infrastructure automation
- Cloud architecture
- Full-stack development
- DevOps practices
- Enterprise architecture

Core Skills

Infrastructure & Cloud

- Kubernetes (Expert, 6+ yrs)
- Docker (Expert, 8+ yrs)
- AWS (Expert, 7+ yrs)
- Linux (Expert, 22+ yrs)
- Terraform (Adv, 5+ yrs)
- Ansible (Adv, 6+ yrs)
- Proxmox, VMware
- Multi-cloud & Hybrid

Backend & Languages

- TypeScript/Node.js
- Go/Golang
- Rust
- Python
- Bash/Shell
- JavaScript (ES6+)

Databases

- PostgreSQL (15+ yrs)
- MySQL, MongoDB
- Redis, DuckDB
- SQLite

DevOps & CI/CD

- GitLab CI/CD
- Jenkins
- GitHub Actions
- Helm, ArgoCD, Flux

Observability

- Prometheus
- Grafana, Loki
- Jaeger, ELK Stack
- NetData

Summary

Platform Engineer | Systems Architect | Linux Evangelist | Emerging Technologist

Self-motivated engineer with **30 years of full-stack software engineering** and **22+ years of infrastructure/systems engineering**. Three decades of cross-domain expertise spanning the entire software engineering ecosystem—from low-level systems programming and infrastructure automation to application development and enterprise architecture.

My Greatest Strength: Ability to quickly grasp new concepts and learn anything by diving into the deep end. I thrive in high-pace, rapidly evolving environments that require continual learning and identifying abstract connections. This has served me well in time-sensitive situations where understanding the underlying root cause quickly can mean the difference between a minor incident and a major outage.

“In my experience, to truly know what a tool does well, you must first understand what it does not do well.”

Experience

BitBuilder Cloud, LLC

Dallas, Texas

Founder, Cloud Architect, CIO

2021 - Present

Launched Cloud Hosting and Consulting private SaaS with focus on vendor-agnostic, e2e encrypted, highly-available, globally distributed hyper-converged platform.

Infrastructure: HPE DL385 Gen10 (dual AMD Epyc 7601, 512GB RAM, 30TB NVMe); HPE DL380 Gen8. **Total: 2TB+ RAM, 320 cores, 64TB NVMe.**

- Single-handedly built core services on co-located custom bare metal servers
- Containerized and load-balanced organizations with **1M+ global visitors/day**
- Orchestrated global scaling via multi-cloud hybrid overlay layer with custom k8s distribution
- Implemented monitoring: Grafana, Prometheus, Victoria-Metrics, NetData, Jaeger

Tech: Kubernetes, Docker, ZFS, NVMe, Multi-cloud, Hybrid Infrastructure

Fidelity Investments

Southlake, TX

Principal Software, DevOps, and Cloud Engineer 2023 - 2025

Technical leader and cloud architect, designing enterprise-scale cloud solutions while mentoring teams on AWS best practices.

- Architected comprehensive AWS solutions: secure networking, multi-account strategies, IAM policies for financial security standards
- Designed and built full **AWS CDK platform** for rapid deployment of standardized, compliant infrastructure
- Engineered Kubernetes solutions: EKS, Helm charts, custom operators for application management
- Rebuilt Jenkins Core platform, increasing build efficiency and reducing pipeline execution times
- Created cloud orchestration CLI tool simplifying cross-account resource management
- Deployed Discourse forums on Alpine Linux containers in Kubernetes with high availability
- Implemented infrastructure-as-code across teams, reduc-

- VictoriaMetrics

Storage & Networking

- ZFS (Expert, 8+ yrs)
- NVMe/SAN
- InfiniBand
- WireGuard/VPN
- Service Mesh
- Load Balancing

Security

- Trivy, Wazuh
- OpenVAS/Nessus
- nmap, Metasploit
- PKI/Certificate Authority
- Teleport

ing configuration drift

- Designed automated security scanning and compliance checking in CI/CD pipelines

Tech: AWS, AWS CDK, CloudFormation, Kubernetes, EKS, Helm, Jenkins, Docker, IAM, Terraform

RSVP & ACT, Inc

Remote

SRE, SysAdmin, and Platforms Engineer 2019 - 2021

SRE: Identified capacity/efficiency constraints, engineered secure, highly-available, horizontally scalable platforms.

- Architected dynamically scaling, secure, version-controlled bare-metal Kubernetes clusters
- Deployed self-hosted GitLab with DevOps pipelines and automatic blue-green deployments
- Managed and performance-tuned **3.5TB+ PostgreSQL** cluster, MySQL, SQLite databases
- Implemented comprehensive observability: Grafana + Loki + Prometheus, Jaeger, ELK, NetData
- Deployed security tools: nmap, metasploit, wazuh, openvas, trivy

SysAdmin: Owned all IT infrastructure management, maintenance, support.

- Simplified hypervisors with centralized Proxmox cluster on ZFS and 56G InfiniBand FC SAN
- Deployed W2019 AD for 50+ workstations, 10+ servers
- Implemented VPN (WireGuard), VLANs, security measures
- **Mitigated two ransomware hacks within first month**

Tech: Kubernetes, PostgreSQL, GitLab, Docker, Proxmox, ZFS, InfiniBand, Ansible, Terraform

Perspectives.org

Remote

IT Director 2017 - 2019

Led IT team and India-based dev team; developed 5-year roadmap to rebuild legacy .NET 3.5 into 18 modern portals.

- Increased capacity by **10x** while reducing budget by **50%**
- Reduced page load time from **5 sec** to **0.8 sec** average
- Built DRM-secured offline-enabled streaming video player in Go

Tech: Go, Docker, Rancher, AWS, Container Orchestration, .NET

AT&T Corp.

Dallas, TX

Professional Application Developer 2014 - 2017

Full stack engineer building custom web-based tools for internal departments.

- Led migration from Rails/MySQL to Node.js, Angular.js, MongoDB
- Engineered Docker-based DevOps pipeline for microservices
- Architected large-scale "Order Status" app aggregating dozen+ legacy sources

Tech: Node.js, Angular.js, MongoDB, Docker, Microservices

Early Career

- First website at **11**, on legal pad, 4 years after birth of Internet

- At **17**: HL7 protocols in MS DOS FoxPro 2.1
- At **19**: Windows Network Admin (2 DCs, 11 workstations, Checkpoint firewall)
- **TACC Support (2007-2013)**: Owned computer repair/IT consulting, up to 5 employees

Projects & Homelab

BitBuilder Cloud Platform - Hyper-converged infrastructure serving 1M+ daily visitors

AWS CDK Platform - Internal developer platform for rapid standardized deployment

Homelab: HPE DL385 Gen10 (Dual Epyc 7601, 512GB RAM, 30TB NVMe) + HPE DL380 Gen8