



J  
D

# JOSH DEEDEN

## Web, Backend & Infrastructure Engineer

Camas, WA, USA | 626-558-1136 | [work@deeden.org](mailto:work@deeden.org) | [GitHub](#) | [LinkedIn](#)

### SUMMARY

Engineer who builds the platforms other engineers build on. Two decades shipping code taught me what makes infrastructure painful—and how to fix it. Now I focus on CI/CD, cloud architecture, and developer tooling. AWS, Kubernetes, and Terraform certified.

### PROFESSIONAL EXPERIENCE

## CLUBHOUSE

### Senior Infrastructure Engineer | April 2025 – Present

- Led comprehensive infrastructure modernization with data-driven configuration patterns, consolidating 5,000+ lines of monolithic Terraform into maintainable, composable architecture supporting 110+ AWS resources across queues, storage, caching, databases, and CI/CD—enabling safer deployments and faster infrastructure evolution.
- Optimized GitHub Actions CI pipeline through industry-standard caching, parallelization, and dependency management best practices—reducing pipeline execution times by 50% and accelerating developer feedback loops.
- Established enterprise-grade service ownership system achieving 100% coverage across 770+ production services with type-safe validation and automated drift detection, eliminating operational blind spots and accelerating incident response.
- Drove multi-layered cost optimization initiatives including automated SMS fraud detection saving thousands daily, observability cost reduction through custom metric optimization and log ingestion tuning, comprehensive cost attribution tagging across 50+ resources, network isolation for data

partnerships, and infrastructure rightsizing—delivering measurable cost reductions while improving system reliability.

- Engineered k3d-based local development environment with one-command setup and live reload, with full AWS emulation via LocalStack—accelerating developer onboarding and enabling rapid local iteration.

**Technologies:** Python, Django, Celery, AWS (EC2, ASG, ECS, RDS Aurora, ElastiCache, IAM, S3, Lambda, NAT Gateway), Terraform, Packer, GitHub Actions, Docker, Kubernetes (k3d, Kustomize, Tilt), PostgreSQL, DynamoDB, Valkey, Prometheus, Grafana, Loki, LocalStack

---

## CENTRIC SOFTWARE

**Senior Cloud Engineer - Innovation Team | March 2024 – April 2025**

- Architected and deployed enterprise-grade cloud infrastructure using Terraform and Terragrunt across AWS and Azure—eliminating manual configuration errors and reducing deployment times by ~60%.
- Engineered and maintained fully-automated production-grade Kubernetes clusters across AWS and Azure, leveraging Helm charts, ArgoCD and automated CI/CD pipelines to orchestrate a resilient microservices ecosystem. Spearheaded advanced cloud-native practices by implementing automated scaling, robust observability (Prometheus, Grafana, Loki, Tempo), and comprehensive security measures.
- Pioneered a multi-cloud approach that empowered the sales team to offer flexible client solutions, directly unblocking key enterprise deals and expanding market reach.
- Mentored development teams to optimize operational workflows and provided strategic guidance on industry best practices in DevOps.

**Technologies:** Terraform, Terragrunt, AWS, Azure, Kubernetes (AKS & EKS), Helm, Docker, Cilium, Prometheus, Grafana, Loki, Tempo

---

## PRISMATIC

## Senior Infrastructure Engineer | March 2023 – December 2023

- Architected and deployed customizable Docker containers for both CI jobs and production services, improving deployment efficiency by 50% and standardizing dev environments.
- Engineered a Dockerized Go application to streamline pipeline execution within a monorepo, reducing build times from 20+ minutes to <5 minutes and improving developer productivity.
- Transformed an outdated Python tool into a robust TypeScript application, automating documentation generation and enhancing team productivity.

**Technologies:** Linux, Docker, Go, GitLab CI/CD, TypeScript, Node.js, Python

---

## ONTRA

### Lead Infrastructure Engineer | September 2019 – November 2022

- Architected a serverless solution to replicate the production database into Snowflake, reducing operational costs and improving data availability for BI dashboards.
- Engineered a custom system to provision ephemeral test environments for every pull request, streamlining testing workflows and accelerating feedback loops.
- Delivered an AWS EKS-based platform for GitLab runner workloads, enhancing CI/CD capabilities while reducing operational expenses.
- Developed an Ansible playbook to automate local development setups for Mac laptops, reducing new hire onboarding time from 2 days to <2 hours.

**Technologies:** AWS (CDK, Lambda, Step Functions, ECS, Fargate, RDS, S3, EKS, IAM, EC2), Linux, Docker, Node.js, TypeScript, Python, Datadog, Kubernetes, GitLab CI/CD, Helm, Bash, Ansible, macOS, Traefik, Snowflake

---

## WURL

### Senior Infrastructure Engineer | April 2018 – August 2019

- Architected and deployed a scalable serverless solution for video file ingestion, enhancing the reliability and scalability of video streaming services.
- Engineered a high-performance Go-based tool for HTTP log processing, enabling rapid insights into viewer behavior and platform optimization.

**Technologies:** AWS (Lambda, S3, DynamoDB, ECS, Fargate, Transfer for SFTP), TypeScript, Node.js, Serverless Framework, Go, Docker

---

## ADDITIONAL ROLES

**Senior Full Stack Engineer | January 1998 – January 2018**

- Contributed to major software development projects for companies including PolicyGenius, Jibe, OkCupid Labs, VMware, and Microsoft.
  - Worked across Ruby on Rails, Node.js, Java, and more, demonstrating flexibility and a strong ability to adapt to new technologies.
- 

## PROJECTS

### SUBNETTER

**Open Source Network Planning Tool | 2024 – Present**

- Built a multi-cloud subnet allocation tool for AWS, Azure, and GCP that generates deterministic, non-overlapping CIDR plans across complex infrastructure hierarchies.
- Developed NetBox IPAM export and comprehensive overlap validation ensuring production-ready outputs.

**Technologies:** TypeScript, Node.js, Zod, NetBox

**GitHub:** [github.com/gangster/subnetter](https://github.com/gangster/subnetter)

---

## TECHNICAL SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python, Ruby, Go, Bash, SQL, HCL, YAML
  - **Cloud Platforms:** AWS, Azure
  - **Infrastructure as Code & DevOps:** AWS CDK, Terraform, Terragrunt, Pulumi, CloudFormation, Atlantis, Ansible, Serverless Framework
  - **Containerization & Orchestration:** Docker, Kubernetes, Helm, ArgoCD, Kustomize, Istio, Cilium, Calico, Traefik, AWS ECS, AWS Fargate, ECR, Packer
  - **CI/CD Tools:** GitLab CI/CD, GitHub Actions, CircleCI, Azure DevOps, AWS CodePipeline, AWS CodeBuild
  - **Databases:** PostgreSQL, MySQL, Aurora, SQLite, Redis, Valkey, ElastiCache, etcd, DynamoDB, Snowflake, Elasticsearch
  - **Message Queues:** SQS, SNS, Kafka, RabbitMQ, Celery
  - **Web Frameworks & Libraries:** React, Next.js, Remix, NestJS, Django, Ruby on Rails
  - **Monitoring & Observability:** Datadog, Prometheus, Grafana, Loki, Tempo, CloudWatch, PagerDuty, OpenTelemetry
  - **Networking & Security:** VPC, IAM, Route 53, CloudFront, ALB, NLB, WAF, KMS, ACM, Secrets Manager, Security Groups, NAT Gateway
  - **Operating Systems:** Linux (Ubuntu, Amazon Linux), macOS
  - **Version Control:** Git, GitHub, GitLab
- 

## CERTIFICATIONS

- **Certified Kubernetes Administrator**
- **Certified Kubernetes Application Developer**
- **HashiCorp Certified: Terraform Associate (003)**
- **AWS Certified Solutions Architect – Associate**
- **AWS Certified Cloud Practitioner**