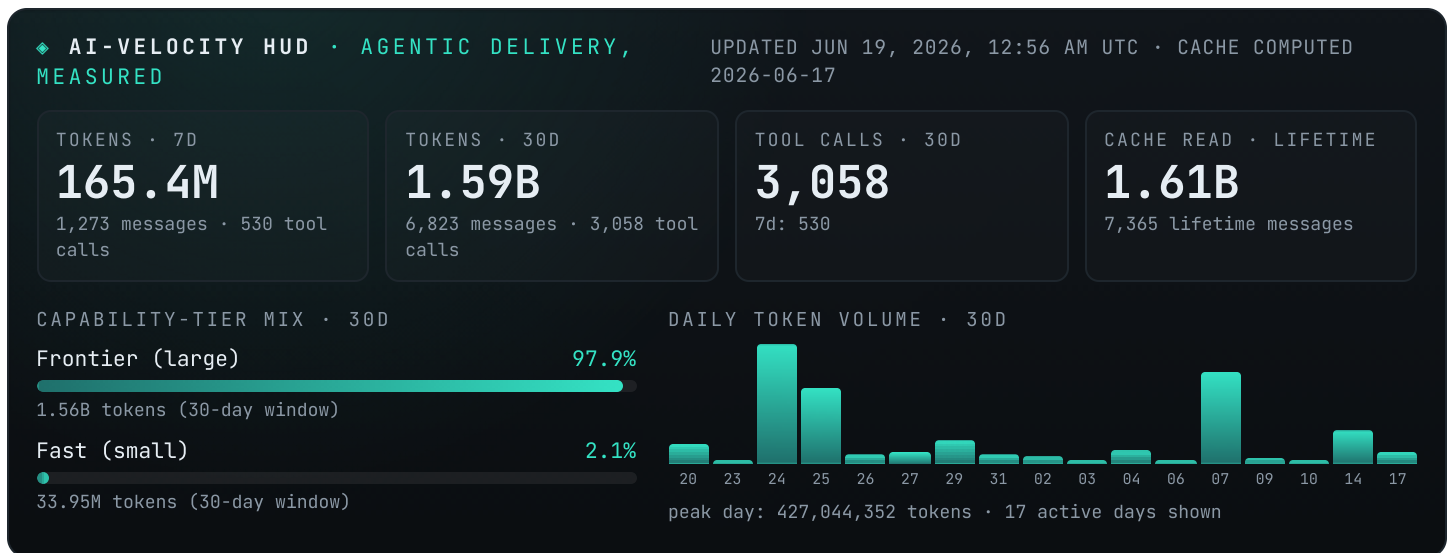


# Zane Williamson

Lead Software Engineer · Platform & Infrastructure

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## SUMMARY

Platform engineer building infrastructure since 2007 — deep Kubernetes, Terraform, and observability. The work is always the same shape: take an opaque infrastructure surface, instrument it, turn that instrumentation into an API, then build the developer tooling that makes it useful. The HUD above is the receipt for how I ship now: a tuned agent workflow that lets one experienced engineer move at near-team cadence — 165 merged PRs and ~2,000 commits in 17 months. Next bet: LLM inference performance (vLLM, CUDA, serving internals).

## EXPERIENCE

### Lead Software Engineer — Salesforce (Falcon TIDE)

2024 — present

- Built a custom Terraform HTTP backend capturing state metadata *in-flight* during apply → DynamoDB, across **millions of state files**.
- Fronted it with an LLM query interface exposed as REST + an MCP server, so engineers query the Terraform footprint in natural language.
- Leading consolidation of a sprawled EKS fleet into a smaller, centralized set — sharper SLOs, less operator toil.

### Senior Staff SRE — Varo Bank

2022 — 2024

- Owned platform reliability: Grafana Loki + Tempo + OpenTelemetry Operator; SLOs/SLIs across multiple platforms.
- Migrated org off Helm → ArgoCD; K8s auth kube2iam → AWS client auth; cluster autoscaling; Kafka outbox → data-lake pipeline; team Go CLI.

### Senior Staff Engineer — Flexport

2021 — 2022

- Led greenfield Kubernetes platform: Terraform AWS + Helm-provider EKS, GitOps, Teleport-secured access, Python CLI entrypoint, reusable modules — spread via deliberate senior-engineer pairing.

## Principal Engineer — Zillow

2015 — 2021

- Open-sourced [cidr-house-rules](#) (Lambda + DynamoDB + API Gateway) auditing VPC/CIDR/EIP/NAT across dozens of AWS accounts → data-driven Terraform.
- Drove Kubernetes-on-AWS rollout, Istio sidecar (tracing + mTLS), Envoy fronting Varnish. Lead contributor to [apache/solr-operator](#).

## Platform Engineering Consultant — Geniuslink

2013 — present · concurrent

- Own a multi-cloud K8s platform across EKS, Linode LKE, DigitalOcean — ArgoCD GitOps, Loki/Mimir/OTel observability, Helmfile with per-PR dynamic dev envs, Terraform, Teleport, Fastly. Full-team cadence alongside a full-time role.

## TECHNICAL SKILLS

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### Orchestration

Kubernetes (EKS · LKE · DigitalOcean), ArgoCD, Helm / Helmfile, Istio, Envoy

### Infrastructure as Code

Terraform (custom backends, modules), GitOps

### Observability

Grafana Loki / Mimir / Tempo, OpenTelemetry, Prometheus, SLOs / SLIs

### Cloud & Data

AWS (Lambda, DynamoDB, API Gateway, EKS), Linode, DigitalOcean, Kafka, Postgres

### Languages

Go, Python, Terraform HCL, Monkey C; Java / Node instrumentation

### AI / Platform tooling

LLM query interfaces, MCP servers, agentic developer workflows

## FOCUS

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LLM inference performance — vLLM, CUDA, and serving internals — toward contributing upstream and tuning large-scale inference.

Stats are a point-in-time snapshot from my live AI-velocity dashboard · [zane.srebench.com/hud.html](https://zane.srebench.com/hud.html)