David Teather

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EXPERIENCE

Clear Street New York, NY
Software Engineer · Clearing & Settlement January 2026 – Present

- Led design of a real-time corporate-actions architecture in Go, replacing a multi-minute batch refresh while resolving consistency and ordering across Kafka, async workers, and entitlement processing; cut database load.
- Raised processing capacity over 3x, from 445K to 1.6M jobs in the same daily window, averting the multi-hour month-end bottleneck as volume scaled.
- Reduced database and CPU pressure on high-throughput Go services through query redesign, lazy deserialization, and hot-path allocation reduction; raised peak ledger ingestion from 40K to 90K/sec and cut rollover from 10 to 6 minutes.
- Identified a silently stalled production workflow and drove workflow-duration and TTL alerting across critical financial workflows, catching hangs that raise no errors.
- Parallelized builds, image pushes, and security scans across 30+ services, cutting representative CI workflows from 25–30 to 10–13 minutes and shortening the production hotfix path.
- Built observability infrastructure adopted by multiple teams: Kafka and service dashboards, shared metrics libraries, panic detection, and end-to-end job telemetry.

CrowdStrike Remote
Software Engineer · Next-Gen SIEM · Threat Detection August 2024 – January 2026

- Built and owned the customer-facing Correlation Rules API used to provision security detections, coordinating state across downstream services and shipping with 95%+ test coverage, SLOs, runbooks, and rollback tooling.
- Built parser, lexer, and bytecode VM components for LogScale Query Language, compiling LQL into a custom instruction set for a high-throughput event-processing path; added static validation and CI testing for semantic errors, unsupported constructs, and VM compatibility.
- Diagnosed production failures involving OpenSearch latency, Redis throughput, downstream synchronization, and Kubernetes lifecycle behavior within CrowdStrike's PB-scale NG SIEM platform; carried on-call and shipped mitigations replaying 10K+ rule executions.
- Mentored four interns and onboarded a senior engineer onto the Correlation Rules service, gave the team's architecture talk on it, and rewrote the org's New Service Playbook (200+ readers) used to stand up new services.

PROJECTS & OPEN SOURCE

Go (golang/go) 2026 – Present

- Landed 10 changes across golang/go and golang/tools, including benchmark-backed performance work in the standard library and runtime: runtime.Stack 93% and context.Err 98% faster under contention, database/sql numeric scans 86–96%, archive/tar 41–44%, bufio 26–35%, plus allocation removals in fmt.

TikTokAPI 2019 – Present

- Created and maintain a widely adopted open-source Python library for programmatic TikTok access: 6.6K stars, 1.2K forks, 4M+ downloads, cited in 25+ academic papers; holds a stable developer API over an undocumented platform through continuous request-signing reverse engineering.

Property Radar 2026

- Built a self-hosted Go MCP/REST service for resumable AI-assisted property discovery over a Postgres listing corpus, with versioned preference state, asynchronous ingestion, content-addressed image caching, and model inference kept client-side.

TECHNICAL SKILLS

Languages: Go · Python · TypeScript · SQL
Infrastructure: PostgreSQL · Kafka · Kubernetes · Docker · AWS · Terraform · OpenSearch · Datadog · Grafana

EDUCATION

University of Wisconsin - Madison Madison, WI
Bachelor of Science in Computer Science, Minor in Entrepreneurship GPA: 3.92/4.0

RECOGNITION

Competition: MIT Battlecode (13th/400) · IMC Prosperity 2 (#103 US)
Research: Yik Yak GPS privacy disclosure (Vice, The Verge) · link.social broken authorization disclosure
Teaching: LinkedIn Learning instructor, GitHub Codespaces (4.8K+ learners)