

David Goldstein

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EDUCATION

- **Macalester College** Saint Paul, MN
Bachelor of Arts; Majors: Computer Science, Arabic, International Studies; GPA: 3.80
Sept. 2012 – May 2016

EXPERIENCE

- **Target** Minneapolis, MN
Lead Software Engineer
October 2021 - Present

- **Developer Tooling**
 - * Github Actions: Design and implement common VM architecture running Github Actions workers across GCP, VMWare, and Target's datacenter.
 - * Write Ahead Log KV: Spearhead development and architecture of Redis-driven Secret Provider for store workloads, now used in all 2000 stores and in HQ.
 - * Sidecar Monitoring and Observability: Drive initiative to rewrite sidecar tooling to support both GKE and Open Container runtimes, used in 100k+ workloads across Target's Datacenter and stores.
- **Virtual Machine Management**
 - * Persistent Disks: Design and implement architecture to support local and network storage in support of Target Kubernetes Engine.
 - * Placement Engine: Redesign and optimize placement engine for VMs across Target's datacenter taking into account anti-affinity rules, resource availability, and user-driven constraints.
- **Hybrid Cloud**
 - * Compute Platform: Lead Hybrid Cloud efforts to interface multiple compute providers (GCP, VMWare, internal Target) with one common API for use across Target.
 - * Workflow Management: Architect and implement workflow orchestrator to significantly reduce complexity in management and debugging of operations across Cloud Providers.
 - * Open Policy Agent: Drive and implement Target's enterprise-level OPA policies and rules from the ground up.

- **Greymatter.io** Washington, DC
Lead Software Engineer
May 2019 - October 2021

- **Service Mesh**
 - * Authorization: Drive architecture for zero-trust authentication and authorization at the L4 and L7 layers across Government and Commercial spaces.
 - * Machine Identity: Core developer on integrating Spiffe/Spire as an out of the box machine-identity provider in distributed service meshes.
 - * Open Policy Agent: Lead development on enabling OPA authorization for external OIDC providers in Hybrid Cloud environments.
 - * Monitoring and Observability: Implement distributed metrics and alerting schemas for service meshes with 20k+ workloads.
 - * Customer Relations: Serve as a primary technical contact for the Department of Homeland Security, US Southern Command, and the Defense Intelligence Agency to install, operate, and upgrade Service Meshes.

- **Defense Intelligence Agency** Washington, DC
Software Engineer
Sept. 2016 - May 2017

- **Brief:** Develop end-to-end military capacity planning application for military leaders, including DIA senior leadership and the Joint Chiefs of Staff.

- **Research:** Develop and perform database migrations and updates for highly sensitive data.
- **National Intelligence University - School of Science and Technology** Washington, DC
Intern *Summer 2016*
 - **Research:** Report on scientific advancements for the creation of US foreign policy.
 - **Administration:** Assist professors in management of course schedule and classroom.
- **US Department of State - Bureau of Populations, Migration, and Refugees** Washington, DC
Intern *Summer 2015*
 - **Research:** Report on key foreign-policy issues relating to migration in the Middle East.
 - **Administration:** Take meeting notes for high-level US Government meetings, send memos, assist in document production.

QUALIFICATIONS

- **CSM:** Certified Scrum Master with Scrum Alliance (2021)
- **Top Secret-SCI:** Government clearance (2018)

HOBBIES

- Trail running, canoeing, XC Skiing