

DAVID HUGH HARRIS III

Copenhagen, Denmark | dharris9@gmail.com

+45 30 96 95 44 | <https://dhharris.github.io>

<https://www.linkedin.com/in/dhharris/>

SITE RELIABILITY ENGINEER

Experienced technical engineer with a passion for building innovative programs and systems that improve the lives of others. Advanced expertise in data security, automation, and product development. Known throughout industry for recognition and publication, commitment to modernizing ideas for everyday life and improving functionality of databases and information storage. Key competencies include:

Expertise: Open Source Libraries, Production Code, Linux Servers, Production Environments, Computer Science, Modern Mock/Unit Testing Frameworks, System Administration, Incident Response

Languages and Tools: AWS (Terraform), Go, Java, modern C++, Ansible, Python 3, PHP (Hack), Typescript (React), Ruby (Chef), Postgres, MySQL, coroutines, async-io, gRPC, protobuf, thrift

EXPERIENCE

Logpoint A/S., Copenhagen, Denmark

Site Reliability Engineer

January 2023 - Present

- Technical lead for Platform / SRE team. Key initiatives include setting up AWS-cloud oncall rotation and implementing company-wide standards for incident response and postmortem review sessions.
- Built E2E application monitoring stack for AWS services, using Prometheus, open-telemetry and Grafana
- Greatly reduced operational toil by automating server configuration with ansible playbooks. Increased production SaaS server uptime from 90% to 99.9% by preventing outages caused by JVM resource consumption
- Improved security posture by implementing authentication and authorization for backend services using AWS Cognito-IdP and JWT. Personal access tokens are issued and exchanged for short-lived JWT with limited access scope, ensuring that end users are only authorized to access specific public-facing APIs.
- Organized Logpoint's first Hackathon which bootstrapped key product initiatives, fostered collaboration across teams/cultures and created a memorable experience for over a dozen participating engineers.

Meta Platforms, Inc., Menlo Park, CA

Production Engineer, Data Security Systems

June 2018 - October 2022

- Improved scalability of service responsible for mutating access-control-lists by reducing server memory util by 66% and enabling the service to grow independently from the number of ACLs in the database.
- Optimized critical Hive/Presto data pipelines responsible for populating ACL audit data using a divide and conquer approach that resulted in the pipelines runtime decreasing from 12+ hours to less than 30 minutes.
- Created a server-side request logging framework, allowing to track client-behavior and perf bottlenecks.
- Created A/B testing framework that runs before every commit to catch performance regressions.
- Designed general purpose admission control library inside Thrift server that prevents service overloading due to misbehaving clients. Custom tuning based on client headers can handle over 100k QPS per instance.
- Established SLOs for 10 services, implementing and re-augmenting alarms for their associated thresholds.
- Automated renewals of 30,000 public certificates and reduced lifetimes to improve security posture.
- Conducted over 75 systems interviews and presented at universities to aid Meta's recruiting efforts.
- Led incident post-mortem sessions for the entire Data Security org and drove critical follow-ups.
- Collaborated with several XFN partner teams to plan roadmaps focused on reliability and scalability features.

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PUBLICATIONS AND RECOGNITION

Hack Illinois 2017 Finalist – “Rust Cookbook” – <https://github.com/rust-lang-nursery/rust-cookbook>
Featured on the official Rust-Lang blog and commended as one of the largest achievements of 2017
Open source GitHub repository has over 600 commits and 136 contributors as of June 2025

EDUCATION

Bachelor of Science (BS), Computer Science and Mathematics, University of Illinois at Urbana - Champaign

LANGUAGE

English / Native, Danish / B2