

# Sam Hendricksen

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## Professional Summary

Senior Software Engineer with expertise in scalable systems, reliability engineering, and cloud-native orchestration. Skilled in Java and Python, with a proven ability to design, build, and optimize production systems at scale. Experienced in CI/CD automation, distributed systems performance tuning, and resilient workflow design, with a collaborative and mentoring approach aligned with GitHub's culture of reliability, learning, and developer impact.

## Education

Virginia Tech — B.S. in Computer Science

## Clearance

Active Secret Clearance

## Certification

AWS Machine Learning (Expected Oct 2025)

## Skills

Languages: Java, Python, SQL, Dart (exposure: C, C++, JavaScript)

Frameworks & Tools: AngularJS (experience), Maven, Flask, Git/Bitbucket, Jenkins, UrbanCode Deploy

Systems & Orchestration: AWS Step Functions, ECS Tasks, Lambda, SQS/SNS, API Gateway, Cross-Region Replication

Cloud & Data: PostgreSQL, DynamoDB, S3, EC2

Reliability & Resilience: Failover/fallback pipelines, Active-Active system design, Replay/recovery systems, Performance tuning

CI/CD & DevOps: Jenkins, Bitbucket, GitLab (learning), UrbanCode Deploy, Gitlab

Testing: Unit testing, Automation testing, Integration testing

Containers & Platforms: Docker, Linux, AWS ECS

Security: Cipher modernization, Java vulnerability remediation, compliance alignment

## Experience

### Fannie Mae | Senior Associate, Cloud Infrastructure – Software Engineering

Jan 2020 – Current | Remote

- Designed and maintained high-performance systems in Java and Python, supporting large-scale data transfers with strict uptime and reliability requirements.
- Optimized workflows and pipelines using AWS Step Functions, ECS Tasks, and Lambda for orchestration of high-volume workloads.
- Enhanced reliability and resilience with failover/fallback pipelines, Active-Active system design, and replay/recovery mechanisms.
- Integrated testing frameworks including unit testing for AWS Lambdas and expanded automation testing to reduce errors in complex distributed systems.
- Led encryption and security modernization, upgrading cipher standards and remediating Java vulnerabilities across systems.
- Tuned PostgreSQL databases and decoupled workflows into DynamoDB to improve system performance and scalability.
- Contributed across the full SDLC, including requirements, design, implementation, testing, and maintenance.
- Mentored junior engineers and collaborated with distributed teams to deliver reliable, scalable solutions across multiple applications.

## Notable Projects

- Workflow Orchestration at Scale: Architected decoupled orchestration between database and transfer layers, reducing bottlenecks and improving scalability.
- Automation & Onboarding Tools: Delivered a JSON schema-driven onboarding system with API validation and security checks.
- Migration Dashboard: Developed a Python/Flask UI that migrated 100+ apps with automated templates and centralized JSON definitions.
- Cipher Modernization Initiative: Directed platform-wide encryption upgrades, aligning with compliance and reducing system vulnerabilities.

## Government & Defense Experience

### U.S. Coast Guard Reserve | Marine Science Technician

Aug 2015 – Jun 2021 | Norfolk, VA

- Applied federal compliance and security frameworks (CFR) in operations.
- Strengthened risk mitigation and multi-agency coordination in regulated environments.

## Prior Experience

nCino | Software Developer Intern (May 2019 – Aug 2019 | Wilmington, NC)

- Built secure financial workflows in Apex and AngularJS.
- Improved compliance features in data workflows through JavaScript enhancements.

TrackOff | UI Developer Intern (May 2018 – Aug 2018 | Baltimore, MD)

- Updated iOS application and integrated analytics pipelines to track usage trends.
- Redesigned UI for clarity and transparency.

Ten 56, Brand Development | Chick-fil-A Cow (Sep 2014 – Aug 2015 | Yorktown, VA)

## Technologies

Java, Python, SQL, JavaScript, AngularJS, PostgreSQL, DynamoDB, Docker, Jenkins, Bitbucket, GitLab (learning), UrbanCode Deploy, AWS (Lambda, Step Functions, ECS, S3), Linux, Jira, Salesforce, Flutter, Flask