

# Dagmawit Assefa

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## Professional Summary

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Backend software Engineer with 5+ years of experience building and scaling distributed backend systems, including payment and finance platforms. Particularly focused on reliability, observability, and delivering product value through robust architectures and collaborative engineering.

## Experience

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### Software Engineer III

New York City, NY

#### Peloton Interactive

August 2020 - Present

- **Led end-to-end integration of a new payment partner**, Truemed, into e-commerce checkout, enabling HSA/FSA payments; collaborated with product, legal, and finance teams to ensure compliance and data consistency, resulting in a ~10% increase in checkout conversion.
- **Led a single to multi-cluster AWS migration** for a critical event-driven financial reporting microservice, improving availability, reducing latency, and increasing fault tolerance for global e-commerce operations; ensured data integrity, auditability, and compliance with internal reporting standards.
- **Built a next-generation payments platform microservice**, decoupling fundamental components of payments and tax from legacy monolith systems to enable modular, scalable, and reliable workflow via Kotlin-based Springboot platform microservice; reduced partner onboarding time by ~50%, improved system maintainability, and enhanced checkout reliability while ensuring full legal compliance.
- **Architected and developed a subscription billing workflow** orchestrating event-driven communications via Kafka across microservices for fault-tolerant recurring payment processing; prevented billing errors like double-charging using auto-recovering retries with Temporal; designed reusable payment wallet abstractions, reducing effort to add new partner integrations by ~60%; provided high observability for high-volume, long-running workflows.
- **Championed operational excellence and continuous learning** consistently improving system transparency, self-healing ability and incident response processes to deliver business value reliably using Datadog metrics & SLOs; designed and executed service-level load testing with K6 to validate performance for high-traffic periods such as holiday season; lead a bi-weekly team learning session for knowledge sharing and skill development

## Technical Skills

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**Languages:** Python, Kotlin

**Cloud, Infrastructure, CI/CD:** AWS (EC2, S3, RDS, Step Functions, IAM), Docker, Kubernetes, Jenkins, ArgoCD

**Frameworks & APIs:** Spring Boot, REST, Temporal, PyTest, K6

**Data & Messaging:** PostgreSQL, Kafka, SQS, DynamoDB

## Education

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### Wellesley College

Wellesley, MA

B.A. in Computer Science and Physics

### Monroe University

New Rochelle, NY

M.Sc. in Computer Science (Expected 2027)