

# Accelerating **Digital Bill Payments** with AI-Assisted Cloud-Native Engineering

Eight months from manual paper checks to a **scalable, event-driven digital payments platform** – built with AI-assisted engineering, delivered without disrupting End-of-Day workflows.

A leading S&P 500 fintech serving community and regional financial institutions partnered with GlobalLogic to replace a manual, paper-based bill payment process with a cloud-native digital workflow integrated to a tier-1 U.S. bank's processing API.

The result: lower operational cost, faster reconciliation, stronger data integrity, and an architecture built to scale into B2B payments and external integrations next.

"I'm incredibly proud of what we've accomplished together – from the **deployment of key features** to the seamless transition of support. These milestones reflect the **dedication, coordination, and expertise** that GlobalLogic brought to the table."

Director of Software Engineering, Payments Platforms

# The Architecture

Cloud-native .NET API on AWS – SQS for messaging, Kubernetes (EKS) for orchestration, Grafana and CloudWatch for full observability

Pre-submission validation + automated retry with DLQ – catches failures before they hit the bank API, handles the rest gracefully without losing transactions

Daily lockbox eligibility synchronization – keeps payment data accurate across systems

AI-assisted code and test generation – accelerated delivery without compromising reliability



## Impact

**8 months** end-to-end delivery · Eliminated check printing, shipping, and handling cost · **Faster processing** and reconciliation · Decoupled, observable **cloud-native architecture** built for uptime · Architecture **extensible to B2B payments** and external integrations