

Tech 42 and OpenTug showcased as part of AWS Gamechangers for transformative AI use

OpenTug saves customers up to tens of millions through more full fleet visibility and optimized scheduling, thanks to AI-enabled processes

WOODSTOCK, GA, UNITED STATES, August 14, 2026 /EINPresswire.com/ -- [OpenTug](#) is on a mission to boost the efficiency and visibility of tug, barge, and marine operations that the global economy depends on. Already working with some of the largest companies in the world, they turned to [Tech 42](#) to optimize an agentic AI pipeline on Amazon Web Services (AWS) that is enabling scale and delivering up to tens of millions in savings to their customers.



Lance Dofflemyer from Tech 42 and Michael Baldwin from OpenTug

The challenge of email-dependent operations

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Tech 42 allows us to focus on what we know, working with our customers, while they can focus on what they're experts at, managing and building a scalable and performing infrastructure.”

Michael Baldwin, Co-Founder and COO of OpenTug

Communications within the marine logistics industry rely on shorthand-heavy email for updates. OpenTug's customers would read daily carrier emails and enter updates into spreadsheets to track vessel ETAs. Manually processing these updates is time consuming and inefficient for an industry that depends on hitting schedules.

OpenTug's BargeOS platform actively tracks more than 1,500 barges per month moving billions of dollars of cargo every year and processes updates across a database of

more than 390,000 records.

Solving automation roadblocks with AI

Tech 42 worked with OpenTug to build an agentic pipeline to process emails, extract key data points, and make updates across their complete database. The result is an extraction time reduction from 20+ minutes to under 30 seconds for barge updates, regardless of volume.

Amazon Bedrock eliminates the token-per-minute bottlenecks that had capped how many shippers, operators, and facilities OpenTug could serve simultaneously. The system also auto-scales with demand, so costs track with actual usage.

"We had to develop the technology to be trustworthy, so that the operators running the logistics could trust it, rely on it, and use it day-to-day," said Lance Dofflemyer, Founder and CEO of Tech 42.

By standardizing data from unstructured emails, the AI pipeline also unlocks insights into fleet performance that customers have never had before, allowing them to identify efficiency opportunities through better barge assignment, rightsizing their fleet, or optimizing dock scheduling with intelligent ETAs.

The net impact is OpenTug's customers managing their barge supply chain in half the time, with some customers saving up to tens of millions as a result.

"Tech 42 allows us to focus on what we know, working with our customers, while they can focus on what they're experts at, managing and building a scalable and performing infrastructure," said Michael Baldwin, Co-Founder and COO of OpenTug.

The [AWS Gamechangers](#) spotlight

AWS Gamechangers showcases AWS Partners and customers who are transforming business with AI solutions on AWS. These stories bring to light innovation in the application of AI for solving real business challenges. Each feature is captured through the lens of legendary photographer George Lange.

About OpenTug

OpenTug is the company behind BargeOS, an AI-native software platform for marine logistics. BargeOS helps customers improve productivity, increase visibility, and support better margin outcomes by connecting data, automating workflows, and streamlining decision-making across commercial planning, voyage management, invoice intelligence, and performance management. For more information, visit www.opentug.com.

About Tech 42

Tech 42 accelerates AI transformation from startups to enterprises by delivering scalable, production-grade solutions. With 300+ AI and cloud projects delivered, and recognition as a 2025 AWS Rising Star Partner of the Year Award finalist, Tech 42 is the trusted partner for teams looking to move from AI concepts to profit-optimized workloads that scale with growth. Areas of expertise include AI agents, document processing, LLM fine-tuning, DevOps optimization, and more. Learn more at www.tech42consulting.com.

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