

Maksim Tybar

GEN AI & DATA ANALYTICS SOLUTIONS ENGINEER · FORWARD DEPLOYED ENGINEER
New York, NY

📞 (+1) 405-334-9893 | ✉️ maxtybar@gmail.com | 🏠 www.maxtybar.dev | 📧 maxtybar | 🌐 maxtybar | 📱 @maxtybar

Summary

Customer-facing GenAI solutions engineer with 5+ years delivering production AI systems for the largest financial services organizations — banks, asset managers, and insurance companies. Proven track record owning end-to-end technical delivery from prototype to production, building LLM-powered applications (multi-agent workflows, RAG, document analysis) that generated over \$25M in new workloads. Full-stack builder across Python, TypeScript, React, and infrastructure-as-code. Published technical author (AWS ML Blog) and re:Invent speaker. AWS Solutions Architect Professional, DevOps Professional, and ML Specialty certified.

Skills & Certifications

Certification	AWS Certified DevOps Engineer, AWS Machine Learning Specialty, AWS Certified Solutions Architect Professional
Programming	Python, TypeScript, Java, Go, PySpark, Next.js, JavaScript, React, SpringBoot, Rust
AI/ML	LangChain, LangGraph, Amazon Bedrock, AgentCore, RAG, OpenSearch, SageMaker
Infrastructure	AWS, Terraform, AWS CDK, Docker, Kubernetes, Apache Kafka, Apache Airflow, Serverless, S3/Iceberg, AI-DLC

Work Experience

Amazon Web Services

New York, NY

LEAD PROTOTYPING SOLUTIONS ARCHITECT | DEVELOPER

Jan. 2025 - present

- Led end-to-end delivery of an AI-powered loan origination system using LangGraph multi-agent workflow on Amazon Bedrock AgentCore with real-time human-in-the-loop decisioning (WebSocket streaming, Next.js review UI), Cedar policy-based authorization, and automated Terraform IaC — reducing manual underwriting from hours to minutes, serving millions of consumers.
- Built scalable data ingestion pipelines for transactional and brokerage workflows with strict processing requirements (50K TPS; 5B+ rows per ingest) using Kafka, S3 Iceberg Data Lake, AWS Lake Formation, and DMS — integrating customer platforms (Snowflake & Databricks) within the AWS storage stack.
- Owned technical delivery for the largest FinServ customers (over \$100M ARR), generating \$25M+ in new workloads over 4 years through end-to-end GenAI and data analytics prototypes presented to C-Suite leadership.
- Embedded with customer engineering teams to scope requirements, sequence work, remove blockers, and guide adoption — advocating for AWS AI/ML strategy at re:Invent, industry summits, and customer on-sites.
- Codified GenAI deployment patterns into reusable open-source CDK constructs (400+ GitHub stars) and reference architectures (DAIVI) adopted across the AWS FinServ customer base.

Amazon Web Services

Seattle, WA

SOLUTIONS ARCHITECT

Jul. 2022 - Jan. 2025

- Delivered immersion days, hackathons, and technical workshops to hundreds of FinServ and M&E customers, including hands-on code walkthroughs for Amazon Bedrock, SageMaker, and OpenSearch adoption.
- Designed and delivered a generative AI solution that automates insurance underwriting — rule validation, guidelines adherence, and decision justification — using Amazon Bedrock, Step Functions, and Lambda, reducing manual review cycles for FinServ customers. Published the approach as a two-part AWS ML Blog with an open-source CDK deployment.
- Built and presented full-stack prototypes (React, Python, TypeScript) deployed via IaC (CDK, Terraform) for data analytics, ML, and GenAI workloads. Generated over \$10M ARR in 2 years.
- Acted as technical liaison between customers and AWS service/product engineering teams, providing field feedback from customer engagements that influenced service roadmaps and feature prioritization.

Perficient Inc

Saint Louis, MO

ASSOCIATE TECHNICAL CONSULTANT | ARCHITECT

Jan. 2022 - Jul. 2022

- Lead the design and development of multiple enterprise-level microservice applications using Java and Spring Framework (Spring MVC, Spring JPA, RESTful API), Oracle, MySQL DB, and Red Hat OpenShift for containerization.
- Design and implemented scalable system APIs responsible for managing over 100 million messages and requests for packaging, notification, and label creation systems for a delivery company. Improve unit test coverage across the project to over 90%.
- Work in Agile environment delivering daily code updates along with quality testing and development teams using Jira, Confluence and Git.

Education

Trine University

Reston, VA

M.S. IN INFORMATION STUDIES/SCIENCE – GPA: 4.0/4.0

Jul. 2024. – May 2025

- Artificial Intelligence, Machine Learning, Data Engineering, Distributed Computing, Cloud Computing, High Performance Computing.

Oklahoma State University

Stillwater, OK

B.S. IN COMPUTER SCIENCE - GPA: 3.605/4.0

Jul. 2017 - Jul. 2021

- NCAA D-I Tennis Athlete; Data structures and algorithms, Computer systems, Differential equations, Linear algebra II, Complexity analysis.