

Thapelo Sebolai

New York City, NY

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Summary

Senior Software Engineer with 6 years of experience building distributed backend systems, ML infrastructure, and revenue-critical platforms at Meta and Superscript. Expertise in healthcare payments, claims reconciliation, payment infrastructure, and media rights systems, with experience scaling platforms processing **800K+ healthcare claims daily**.

Education

Stanford University — B.S. Computer Science (Artificial Intelligence)

September 2016 – June 2020

Experience

Superscript (healthcare payments platform)
Senior Software Engineer, Pricing Engineering

New York City, NY
July 2025 – July 2026

- Scaled a high-throughput claims reconciliation platform processing **800K+ healthcare claims daily**, ensuring financial parity across pricing models, payer adjudications, and internal ledgers while improving collections for **300+ practices**.
- Designed deterministic claims-matching algorithms and reconciliation workflows across EHR, payer remittance, and internal ledger data, reducing unreconciled claims from thousands to **fewer than 50**.
- Built payment integrations across multiple EHRs, enabling embedded healthcare payments and contributing to a **2× increase in annual contracted revenue**.

Meta
Software Engineer

New York City, NY
August 2020 – May 2025

Music Partner Experience Team (Backend Systems & ML)

- Designed and implemented backend licensing infrastructure supporting multi-track audio on Instagram, ensuring real-time rights validation and compliance across millions of users.
- Served as the team's Music ML subject matter expert, building ML pipelines that improved beat and BPM detection accuracy by **30%** while expanding rhythm and genre feature coverage to **99.9%**.
- Spearheaded the unification of Facebook and Instagram's audio muting infrastructure, replacing full-video takedowns with audio-only muting and driving measurable growth in Reels music adoption.
- Led a multi-quarter platform consolidation of Meta's media rights-checking and attribute systems, creating a unified backend for attribute storage, retrieval, and cost ownership.

Ads Manager (Product Infrastructure Team)

- Designed reusable React and Hack frameworks enabling partner teams to rapidly build Ads Manager integrations adopted across multiple advertiser workflows that supported \$XM+ in incremental advertiser revenue
- Built full-stack data pipelines, scalable APIs, and management UIs for advertiser configurations, streamlining onboarding and reducing advertiser churn.

Slack — Software Engineer Intern

June 2019 – September 2019

- Introduced granular Slack Bot permissioning, enhancing API security and enabling deprecation of broad legacy permissions through cross-team collaboration.
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Skills

Programming Languages: Python, TypeScript, Hack, SQL

Backend: Distributed Systems, REST APIs, Payment Infrastructure, Claims Reconciliation, Data Pipelines

Machine Learning: PyTorch, ML Pipelines, Model Evaluation, Audio Feature Extraction

Cloud & Infrastructure: AWS, PostgreSQL, MongoDB, Aptible, Datadog

Frontend: React

Spoken Languages: English, Afrikaans, French