

# Gabriel Peter

SWISS-AMERICAN · SOFTWARE ENGINEER

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## Experience

### Spotify Inc.

New York, NY

SOFTWARE ENGINEER

November 2023 - Present

- Led "Priority 1 Executive Bet" to serve Premium Subscription discounts to **500 Million** Free-users, drastically increasing the subscription user-base.
- Devised the ML-powered decision engine for the promotional offers previously mentioned, optimizing acquisition cost vs retention at the scale of **35 Million** user inferences daily.
- Implemented the **Free-Trial servicing system** at Spotify, the largest user "Conversion Funnel", which continues to start **2 Million** trials daily.
- Specialized in: low-latency backend systems at scale, performance tuning at the database level, business metrics/monitoring for critical financial systems, multi-team initiatives under strict deadlines.

### Flexport Inc.

Chicago, IL

SOFTWARE ENGINEER

June 2022 - October 2023

- Engineered company-wide taxonomy standardization tool impacting finance, cost-calculation, saving upwards of **\$ 4 Million** from cost leakage.
- Spearheaded **Large Language Model** initiative to automate ingestion of unstructured tabular contract data for procurement partners.
- Played a pivotal role in enhancing my team's microservice architecture, demonstrating a keen focus on scalability and observability. Leveraged **Terraform** and **AWS Cloud** development expertise to drive impactful changes and ensure seamless operations.

## Education

### Northeastern University

Boston, MA

RECIPIENT OF BACHELOR OF COMPUTER SCIENCE

May 2022

### Harvard-Westlake High School

Los Angeles, CA

HIGH SCHOOL DIPLOMA

May 2018

## Certifications

AWS Certified Solutions Architect – Associate

DeepLearning.AI TensorFlow Developer Professional Certificate

## Skills

**Base Languages** Python, Java/Kotlin, TypeScript, JavaScript, Ruby, SQL

**Frameworks** Next.js, React, React-Native, Expo for Mobile Applications, SpringBoot, Express, Django, Ruby on Rails

**Cloud Native & DevOps** Solution Architect with Amazon Web Services, Terraform, Docker, Kubernetes, Helm

## Projects

### TUTEUR FRANÇAIS

2025

- Architected a cross-platform language learning Mobile Application (**Next.js, React Native/Expo, TypeScript, Turborepo**) via an optimized monorepo structure with over **2,000 commits** and **600,000 lines of code**.
- Integrated **Provider-agnostic LLM-powered chatbot** with tool-calling for real-time oral conversation, phrase explanation, and AI-generated lesson with content safety validations.
- Technical Feats: Fan-out notification system (mobile push notifications, emails) with timezone-aware cron scheduling, user management, bespoke Auth0 authentication solution, LLM management tooling for QA of model/provider configurations.
- Established rigorous CI/CD with **Maestro E2E** (Mobile Simulator UX Testing) on self-hosted machines, integration test suites, and AI-powered code quality analysis for the **160+ API routes** and **40+ database models** created.

### FORM

2022

- Designed a full-stack application (**React, Django, AWS, TensorflowLite, Docker**) to provide cloud-based analytics on uploaded weightlifting videos.
- In-house algorithm accurately counts the reps, calculates energy / force output, and lastly validates proper form per repetition.
- REST API supports: safe AuthFlow, **S3 bucket storage**, Queuing background tasks and cronjobs with Celery, Stripe Payment processing.
- ML Algorithms utilize Pandas, Numpy, Boto3, Sklearn to process **100,000** rows of keypoint positional data and then caches results for future queries.