



# Alex Yosef Stokes

Machine Learning Engineer

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## SUMMARY

I'm an engineer with a strong foundation in mobile development and a deepening focus on machine learning, driven by curiosity and a love for solving challenging real-world problems. Through personal projects, open-source contributions, and combing through the latest research papers, I've gained hands-on experience with PyTorch, JAX, and various cutting-edge model architectures. Transitioning into this exciting field, I bring a self-starter mindset, adaptability, and a collaborative spirit to tackle complex challenges and build impactful solutions.

## SKILLS & STACK

### Machine Learning

- Python
- JAX & FLAX
- PyTorch (CUDA)
- Numpy / Numba
- Matplotlib
- Huggingface API

### Infrastructure

- AWS (SageMaker, Terraform, Lambda, ECR, BSD, Debian)
- Database Design
- Postgres
- Deployment Pipeline Design
- Kubernetes / Docker

### Product

- Data Analysis
- Data Engineering
- BI Engineering
- API / SDK Design
- A/B Testing
- B2B Partnerships

### Mobile

- React Native
- React Web
- JavaScript
- Swift
- Kotlin / Gradle

## RECENT WORK EXPERIENCE

### Machine Learning Engineer

8/2023 - 5/2024

Hard Rock Digital

- Worked with the data science team to create new and improve existing predictive models for generating sportsbook odds
- Used SQL and various python ORMs to source, cleanse, and format training data
- Co-authored and executed a proposal/implementation of a generic model that generated several grouped sportsbook market prices, which were previously done independently. Prediction accuracy was improved by ~1.3%

### Staff Software Engineer

12/2021 - 4/2023

Alt

- Co-architected, developed, and deployed a fintech mobile application for alternative asset management using React Native, Swift, and Kotlin
- Strategically planned and executed the improvement of Appstore rating from 2.3 to 4.9 through growth hacking, AB testing, and use of focus groups
- Contributed to the development of a sophisticated pricing prediction model and client API powered by a random forest prediction model and GraphQL

### Engineering Manager

9/2020 - 9/2021

Next Millennium Media

- Managed a team of 5 engineers, delivering successful Mobile SDKs for Swift, Kotlin, and React Native to several large clients, including Meta
- Enhanced the ad suggestion engine by integrating a PyTorch computer vision model into the SDK
- Optimized all products and environments with effective CI/CD pipelines through strategic architecture, standardized versioning, and distribution frameworks

## PORTFOLIO

All project blog posts can be found on my website: [alexiosefstokes.com](https://alexiosefstokes.com)

Egyptian Arabic → English  
Translator with Fine Tuned  
Whisper and NLLB

Aperiodic Infinite Textures and  
Patterns Using Stable Diffusion

Outfix: Design Outfits that Flow  
(w/ Computer Vision)

First Dimension NYC Website

Major League Soccer iOS App

## EDUCATION

California Polytechnic State  
University, SLO

BS. Computer Science  
8/2012 - 4/2016

## GRADUATE CERTIFICATIONS

Stanford University

Continuous Mathematical  
Methods w/ Emphasis on  
Machine Learning

1/2022 - 4/2022

Deep Multi-Task and Meta  
Learning

10/2021 - 12/2021

## OPEN-SOURCE CONTRIBUTIONS

pytorch  
fsgan  
jax-wavelets  
react-native-stripe  
react-native-navigation