

# MANUEL PINEYRO



914-564-5325

✉ [mopineyro@gmail.com](mailto:mopineyro@gmail.com)



[linkedin.com/in/mopineyro](https://www.linkedin.com/in/mopineyro)



[github.com/mopineyro](https://github.com/mopineyro)

## PROFESSIONAL SUMMARY

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Versatile engineer with expertise in platform and application development, specializing in scalable backend distributed systems and mobile interfaces. With experience leading a mobile team, I bring a unique blend of skills in building and optimizing infrastructure while directly contributing to application development. I excel at bridging the gap between backend and frontend, ensuring that both systems and user experiences are robust and reliable. Committed to mentoring and fostering collaboration across teams, I leverage cutting-edge technologies to drive innovative solutions in gaming, AI, and mobile UI/UX.

## EDUCATION

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### Columbia University

BA, Computer Science / Neuroscience

Sep 2008 – June 2012

New York, NY

### University of Buenos Aires

MS, Computer Engineering, Artificial Intelligence

Sep 2024 – Aug 2026

Buenos Aires, Argentina

## EXPERIENCE

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### Fliff

Staff Engineer, Platform

April '24 – Present

Remote

- Led development on unified account and wallet micro-services using Go, Kafka, and GraphQL, ensuring scalability and performance to support 500k+ weekly active users.
- Built an admin tool for account balance reporting and integrated payment solutions (Nuvei, Paysafe) for streamlined user payouts and risk management.
- Optimized Kafka performance and implemented recovery mechanisms on the unified wallet, including atomically updating the database and sending messages.

### Simplebet

Senior Engineer / Team Lead, Games UX

June '18 – Nov '23

New York, NY & Remote

- Directed architecture and development of Flutter-based applications for iOS, Android, and web, focusing on enhancing live sports betting with innovative UX and gamification. Grew the team to six engineers.  
*Apps include: FanDuel PlayAction (Web), YES Pick-n-Play Live (Web), Simplebet Playbook (iOS / Android / Web), Betr Sportsbook (iOS / Android / Web)*
- Led the engineering of Betr Sportsbook, a regulated US sports betting app, delivered cross-platform on iOS, Android, and a web developed with Flutter. This project covered a broad range of areas such as: authentication, KYC, payments, geofencing, and UX. Included integrating an embedded web app through a React Native shell and the development of web modules in TypeScript.  
*Key accomplishments: completed and legally certified for release in 6 months, launched across 3 states, and handled \$500k-900k in bets per month per state in under a year.*
- Developed a "watch and bet" feature for the NY Yankees and BK Nets, integrating live betting in the YES Network App, with over 50,000 active users and 100+ bets per user during matches.  
*Key accomplishments: Over 50,000 active users during live matches with an average of 100+ bets per user.*
- Launched FanDuel Playaction, a real-time betting application, developing the supporting Phoenix-based API and achieving a pioneering use of Simplebet's ML-powered probability feed.
- Spearheaded development of a live interactive video app for Liv Golf, managing the evaluation of video SDKs and mastering video standards and players (Apple MSE/MMS, HLS, DASH, AVFoundation, ExoPlayer, and hls.js), focusing on betting probabilities alongside video.
- Collaborated with UX/UI designers to develop live sports match tracking mini web apps, employing the Flame game engine and Rive animations for real-time visualizations.
- Designed Elixir Phoenix-based game engine API for in-play betting markets, focusing on data ingestion, game mechanics, and user management via REST API & WebSockets.

### Senior Engineer / Team Lead, Feeds Team

- Developed the core of a live sports data feed service with Elixir Phoenix, managing TCP connections, parsing incoming data, and pushing data to an in-game probabilities generation ML service.

### *Founding Software Engineer*

- Extracted and extended essential parts of the data ingestion, question/quiz generation, and bet resolving logic into a Go-based service, rewriting admin panel and front end in React.

### **Sema4 Genomics**

Aug '17 – June '18

#### *Software Engineer*

New York, NY

- Developed the company's first React/Rails product for genetic testing management, enhancing system performance through SQL optimizations and implementing secure payment and authentication systems.

### **Squad Sports**

Nov '14 – Aug '17

#### *Lead Engineer & Co-founder*

Portland, OR

- Led creation of native iOS and Android apps for fan engagement across multiple sports teams, focusing on personalized experiences and developing an innovative time-based fantasy sports app.
- Engineered a Ruby-based API and complemented by an Elixir service for sports data ingestion, facilitating fan interaction and engagement.

### **Nike**

Jan '15 – Oct '15

#### *Application Engineer*

Beaverton, OR

- Built and maintained services & APIs for Nike's post-purchase communication systems, including email, SMS, and globalization services.

## PROJECTS

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### **AI Video Narrator** | *Computer Vision, Flask, Firebase, FFMpeg, React Native, Python*

- Narrates videos in the style and voice of the user's choosing by leveraging OpenAI's vision features and Eleven Lab's text-to-speech API.

### **AI Bot Challenger** | *Python, FastAPI, PyTorch, TypeScript, React*

- A web-based game where users compete against a fine-tuned ResNet18 model to identify dog and cat breeds. Employed PyTorch for model training, achieving 80% breed recognition. Containerized the model using Docker behind a FastAPI server. Developed a UI using TypeScript and React, and a lambda-based API to facilitate real-time interactions with the AI.

### **vviggle** | *Go, Python, Swift, PyTorch*

- "Band in a box" AI and iOS mobile app that takes instruments or voice as input and outputs complementary sounds while allowing the user to compose, arrange, and export to a DAW.

## TECHNICAL SKILLS

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**Languages:** Go, Elixir, Python, JavaScript & TypeScript, Dart, Kotlin, Ruby, Swift

**Technologies:** Android SDK, AWS, CloudFlare, Core Audio, CoreML, Docker, Figma, Firebase, Flutter, GCP, Git, Jupyter Notebooks, Phoenix, Pinecone, PostgreSQL, pgVector, PyTorch, Kafka, RabbitMQ, React & React Native, Rive, Ruby-on-Rails, SwiftUI, Three.js, UIKit, WebXR, GraphQL

**Concepts:** Artificial Intelligence, CI/CD, Cross-Platform Applications, Deep Learning, DevOps, Distributed Systems, ETL, Fine-Tuning, Gamification, Live Data Processing, Machine Learning, OAuth & MFA, Microservices, MLOps, Mobile Application Development, Payments, RAG, Release Management, REST APIs, SMS, Transfer Learning, UX & Design, Video Streaming, Websockets

## PROFESSIONAL DEVELOPMENT

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**Deep Atlas: AI & ML Full Time Intensive Training** | *Python, PyTorch, Deep Learning, RAG, Fine-Tuning, MLOps*

**OpenCV University: Mastering Generative AI for Art** | *Python, Stable Diffusion, LoRA, ControlNet, NumPy, Jupyter*

**Codestars: The Complete ARKit Course** | *Swift, iOS, ARKit, Augmented Reality*