Kevin Ma
(818)-288-2155 | kevinma0522@gmail.com | linkedin.com/in/kevinma5

EDUCATION

Columbia University, School of Engineering and Applied Sciences: New York, NY **September 2022 – Dec 2025**
Bachelor of Science: Computer Science Major **GPA:** 3.85|**Honors:** Egleston Scholar (4% Acceptance Rate Amongst Class) | SAT: 1560

WORK EXPERIENCE

Omen: New York, New York **April 2025-September 2025**
Chief Technological Officer & Co-Founder

- Raised 400K in pre-seed funding by pitching and delivering the vision for a next-gen fintech platform, a system that allows users to translate ideas or concepts into tradable AI agents, fully integrated as an RIA and registered with the SEC.
- Built the product 0 -> 1 as a full-stack owner, architecting and deploying the entire infrastructure through the backend (AWS Lambda, SQS, API Gateway, Supabase, Postgres, EC2, etc.) and frontend (Next.js, React, Tailwind, Vercel), and scalable data pipelines across AWS (S3, Glue, Athena, Redshift) while integrating AI-driven workflows to accelerate shipping.
- Led and scaled a cross-functional team to launch an agentic investment system on AWS bedrock, developing in-house quantitative models with autonomous agents to generate and execute dynamic trading strategies on a robust data engineering foundation.

Amazon: Seattle, Washington **June 2023 – September 2024**
Data Engineering / SWE Intern

- Created a full pipeline to help migrate data ETL profiles and jobs for over 50 teams, used org wide within Amazon Fresh Data teams, facilitated migrations that eliminated >5000 hours manual work
- Used AWS CDK/Lambda Service to build an automatic table completeness validation service for customer data tables.
- Wrote numerous ETL job profiles and SQL queries to assist in analyzing financial team data.

Toyon Research Corporation: Santa Barbara, California **May 2021 – Aug 2022**
Machine Learning Intern

- Developed two machine learning models on Real Satellite Image Data with high precision for natural disaster classification, and utilized Computer Vision Techniques to facilitate 3d Landscape construction from 2d satellite images.
- Developed a full data parsing pipeline for generating annotation files for Binary Masks and PolygonXML annotations.
- Handled data processing and generating scripts and algorithms in MATLAB and Python.

Bubble Social: New York, New York **September 2022 - Present**
Full Stack Developer

- Built and launched "wya" social media iOS app startup, targeting the hyper-locality niche to help users build localized social networks.
- Developed end-to-end features using Swift, Go, Terraform, and AWS services Dynamo and Redshift to build a system for liking profiles, the user relation network through contact data, and all in-app notifications.

ACHIEVEMENTS

Columbia Data Science Hackathon| Winner **March 2023**
1st Place

- Data Science Hackathon contested between ~110 undergraduate and graduate students in Columbia.
- Analyzed real player data with data science techniques to develop a predictive model for true mathematical game odds.

#1 World Rank | Pokémon Showdown **Jan 2021**

- Maintained World #1 Ranking for 3 consecutive months on Pokémon Showdown, a platform with 1M+ Monthly active users, demonstrating advanced strategic thinking, game theory, probability analysis, and consistency under pressure.

PUBLICATIONS

Ma, K., "Artificial Intelligence Aided Training in Ping Pong Sport Education" (2020), Transdisciplinary AI 2020 (TransAI 2020), pp. 43-49, https://doi.org/10.1109/TransAI49837.2020.00012

- Engineered during COVID to help combat the problem of Social-Distancing requirements and the expensive nature of private coaching to produce an Artificially intelligent "Table Tennis Coach".
- Mechanically designed, coded, collected data, and tested racket sensor.
- Recorded live swing data during play, and made working prototype that could provide live AI swing feedback on strokes or swings using Machine learning model architectures.

Ma, K, (2021), "A Real Time Artificial Intelligent System for Tennis Swing Classification" (2021), World Symposium on Applied machine Intelligence and Informatics, pp. 21-26, https://doi.org/10.1109/SAMI50585.2021.9378695

- Expansion of previous table tennis prototype to scale to traditional tennis.
- Improved machine learning models and introduced Physics based Recurrent Neural Networks.

TECHNICAL SKILLS

Languages: Python, SQL, Go, C++, Java, SQL, Go, Swift, MATLAB, React, Next.JS
Quant/ML: AWS Bedrock, volatility estimator for Omen's quant models, CV, Statistical Modeling, backtesting, sckit-learn, tensor flow.
Infra: AWS (S3, Glue, Athena, Redshift, DynamoDB, Lambda, API Gateway, SQS, SES, Bedrock), Mobile Dev, Supabaase, Vercel