

# BRIAN DAI

brian.dai@stern.nyu.edu | <https://www.linkedin.com/in/brian-dai/> | [github.com/BrianDai22](https://github.com/BrianDai22)

## EDUCATION

### New York University Leonard N. Stern School of Business

B.S. in Business concentrating in Finance, B.A. in Computer Science

New York, NY

Expected May 2027

- **GPA:** 3.80/4.00 | **Coursework:** Data Structures and Algorithms, Computer System Organization, Linear Algebra, Discrete Mathematics

- **Organizations:** Entrepreneurial Exchange Group (Comm Lead), Phi Gamma Delta (VP, Treasurer), Business Analytics Club (FLP Mentee)

### Great Neck South High School

High School Diploma

Great Neck, NY

Sep 2020 – Jun 2024

- **GPA:** 4.00/4.00 | Top 8% in 316 Students | 13 Advanced Placement Courses (Computer Science A, BC Calculus, Statistics, Physics 1/2)

- **Awards:** USACO Gold Medalist, VEX World Championship World Division Finalist (~16/1000), Gold PVSA, AP Scholar with Distinction Award

## EXPERIENCE

### Project HolyGrail

Founder & AI Architect

New York, NY

Sep 2025 – Present

- Codified 10+ trading concepts (ICT, Orderflow) into an automated multi-strategy, quantitative trading algorithm in Pine Script + Python

- Attained >70% backtested win rate at ~2RR; implemented a reinforcement learning module (DQN) for adaptive entry/exit optimization

- Shipped a private subscription SaaS product w/ 10+ paying users and ~\$500 MRR, including telemetry, alerting, & user onboarding flow

### Doppio Labs

Software Engineer Intern

New York, NY

May 2024 – Present

- Crawled/normalized 1M+ profiles in Pinecone vector DB→semantic retrieval; Containerized ETL/data ingestion pipeline(Go, Selenium)

- Scaled platform 200+ active users/\$2.4K+ in B2B revenue; developed MVP (REST API design, data models, authflows, Node/Postgres)

- Streamlined core AI search stack, RAG pipeline (Pine, DeepSeek, Jina); reduced hallucination(~23%), domain-grounded context at query

### Omega Robotics LLC.

Co-Founder & Lead Programmer & Head of Marketing

Great Neck, NY

Jan 2021 – June 2023

- Led 5-person SDLC w/Git version control & Agile/Scrum; boosted sprint velocity ~20%, standardized CRs & CI-style testing workflow

- Reduced actuator response time 15.51% for real-time navigation; engineered on-robot ML(odometry), latency-optimized control software

- Raised ~\$120K in R&D/STEM and impacted ~250K+ students globally; connected two polarized realms: entrepreneurship and robotics

## PROJECTS & AWARDS

### UFC Fight Predictor

Founder & Quantitative Strategist

New York, NY

Oct 2024 – Present

- Constructed predictive logistic models (Scikit-learn+Pandas) in 6,400+ UFC fights; engineered features to surface win probability drivers

- Achieved 72.2% AUC on test data & beat Vegas moneylines on UFC 310 (67% WR); validated model calibration against real-world odds

- Compounded ~\$1K to ~\$5K (~400% ROI); leveraged model's end-to-end predictive analytics pipeline for trading-style positional sizing

### Athlete

Founder & Full-Stack Developer

Great Neck, NY

Jan 2021 – Present

- Deployed SwiftUI AI fitness coach app; leveraged Google ML Kit's Pose Detection API for real-time skeletal tracking & edge inferences

- Trained custom exercise classification models(TensorFlow/scikit-learn); instant form deviations & rep quality detection, no cloud latency

- Executed 10+ intramural-team athlete beta launch; collected rapid feedback loops to validate product-market fit and agile sprint planning

### Bootstrapping AI x Reality Hackathon: 3rd Place

Issued by Meta Reality Labs & VAKTROS Inc

New York, NY

Sep 2025 – Oct 2025

- Built SurveiLens an edge CV security platform(React/TypeScript), ~30 FPS TensorFlow inference, and multimodal LLM threat detection

- Delivered sub-3s alert pipeline workflow engine(ReactFlow, Node/Express): parallel Slack/Gmail/Twilio escalations(RBAC & audit logs)

- Sponsors: Meta, Redbull, Raycaster(YC F24), Dime (YC W24), Basepilot (YC W24), Vaktros, Eniac, Made With Jelly, Agency, Dragoneye

### CodeDuels

Co-Founder & Full-Stack Architect

New York, NY

Jan 2025 – June 2025

- Created low-latency, real-time multiplayer coding arena(TypeScript, React, Supabase, & WebSockets)for 1v1 head-to-head "Code Battles"

- Integrated sandboxed, multi-language code execution(Judge0,Supabase Edge Functions); secured runtime execution, live-score, telemetry

- Spearheaded pre-launch growth; organized 2 online Discord "Code Battle" tournaments with \$100 prize pool, attracting 20+ participants

## LEADERSHIP EXPERIENCES & EXTRACURRICULARS

### Entrepreneurial Exchange Group

Community Co-lead & Web Developer

New York, NY

Sep 2024 – Present

- Drove 25% active-member growth, shipping growth tooling & running 20+ community events; led as product owner for community ops

- Optimized Core Web Vitals(React&Vercel); improved performance+27% & sign-ups+17%: faster load times & CI deployment workflow

### Phi Gamma Delta: Nu Epsilon Chapter

Vice President & Treasurer

New York, NY

Sep 2024 – Present

- Automated calendar ops & reduced manual coordination for 60+members with full-stack CRUD tooling in (React, TypeScript, Supabase)

- Managed a~\$15K semester operating budget; allocated resources across chapter operations, external philanthropy, and tech infrastructure

## SKILLS & INTERESTS

**Languages:** Java, Python, GoLang, C, C#, C++, JavaScript&TypeScript, PineV6, HTML&CSS, SQL, R, Kotlin, Rust, NLTK, Ruby, Shell

**Frameworks & Libraries:** React, SwiftUI, TensorFlow, PyTorch, Scikit-learn, Panda, HuggingFace, Matplotlib, Selenium, Google ML Kit

**Developer Tools:** Git, Docker, Kubernetes, Pinecone, Supabase, Firebase, Vercel, Cursor, Jupyter Notebook, LLMs(i.e OpenAI, Jina API)

**Interests:** Entrepreneurship, VibeCode, Trading, Bouldering, Calisthenics, Tennis, Hockey, Psychology, Philosophy, Brotherhood, E-Sport