Ian Wang

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Yale Computer Science '25 (GPA 3.95, Phi Beta Kappa). Engineer and machine-learning researcher spanning large language model (LLM) evaluation, real-time trading and data systems, and full-stack development. Targeting AI/ML research and software engineering roles.

EDUCATION

Yale University — B.S. Computer Science; Data Science Certificate May 2025
GPA 3.95 · Magna Cum Laude · Phi Beta Kappa · Distinction in the Major
Relevant coursework: Machine Learning I & II, Statistics & Learning Theory, Stochastic Processes, Operating Systems, Systems Programming, Algorithms.

EXPERIENCE

Axis (Y Combinator–backed) — Co-founder & CTO Oct 2025 – Present
San Francisco, CA
- Built the company's application layer largely solo: a Python data-ingestion pipeline, a provenance-tracked knowledge graph (GraphRAG) on PostgreSQL, and a TypeScript forecasting backend for an autonomous LLM research agent over commodity markets.
- Drove the product to ~$60K in annual recurring revenue (ARR) as the #1 code contributor (~1,800 commits), owning architecture and core engineering.

Akuna Capital — Junior Quant Strategist Aug 2025 – Oct 2025
Chicago, IL
- Built Python tooling to automate trade-parameter tuning, ingest and operationalize new market-data sources, and support the firm's risk-management systems.

Dexter Experts — Software Engineering Intern Jun 2024 – Aug 2024
Los Angeles, CA
- Rebuilt search for a precision-medicine expert network (MongoDB, Elasticsearch, GraphQL): complex filtering, an asynchronous indexing pipeline, and improved result relevance.

Virtu Financial — Quantitative Trading Intern Jun 2023 – Aug 2023
New York, NY
- Analyzed latency and PnL time-series for proprietary options strategies; identified and demonstrated a bulk order-placement optimization from futures signals that was later shipped to production.

US Navy (NREIP) — Naval Research Enterprise Intern Jun 2022 – Aug 2022
Lakehurst, NJ
- Implemented computer-vision algorithms (PnP, Direct Linear Transformation, RANSAC) and built a keypoint-labeling tool that cut data-prep time from 8 hours to 15 minutes for an OpenPifPaf pose model.

RESEARCH

LLM Evaluation for Behavioral Prediction — Senior thesis, advised by Dr. David van Dijk
- Designed and ran an evaluation testing whether large language models (LLMs) predict real human survey responses (Pew American Trends Panel, OECD; ~68K respondents): normalized categorical/ordinal accuracy, uniform and distributional baselines, and a seen/unseen generalization split.
- Built a single-option ablation that isolated format-learning from behavior-learning, yielding an honest negative result — models beat baselines on seen but not unseen questions. Evaluated a Qwen2.5-based model (frozen backbone + LoRA adapters); PyTorch.

Robust Stochastic Optimization: RGD vs. SEVER — CPSC 561
- Compared robust optimizers under adversarial (ε-contaminated) training data, combining theory with simulations across contamination levels. Code: github.com/Ian2x/Robust-Stochastic-Optimization

Superconducting-Gap Extraction from ARPES Spectra — Yale Applied Physics
- Developed a Python algorithm that resolves superconducting gaps an order of magnitude below instrument resolution, outperforming conventional methods; 2nd-place poster, Advanced Light Source User Meeting (Berkeley). Code: github.com/Ian2x/ARPES_Gap_Extraction_v2

PROJECTS

Kalshi Market-Making Bot — solo 2024 – Present
- Designed and operate a fully-automated market-making engine on prediction markets (order-book ingestion, quoting, inventory control). ~$63K profit across two live accounts in 2026 YTD; ~70% win rate over ~270K trades. Python.

Convo — anonymous campus social app, co-founder
- Shipped a Flutter/Firebase app (iOS + Android) with real-time feeds and anonymous posting; grew to 500+ users.

SKILLS & AWARDS

Languages: Python, TypeScript/JavaScript, C, Java, SQL
ML & Data: PyTorch, Hugging Face Transformers, TensorFlow, NumPy, Pandas; LLM evaluation, fine-tuning (LoRA), retrieval-augmented generation (RAG), NLP, computer vision
Systems & Tools: PostgreSQL, MongoDB, Elasticsearch, GraphQL, React, Flutter, Git, Linux, AWS, GCP
Awards: 5× AIME qualifier · USACO Gold · USA Physics Olympiad (USAPhO) Silver Medalist · High-school valedictorian