

RYAN PASSARO

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Education

University of Texas at Austin | Austin, TX
B.S. Computer Science, B.S. Economics | 05/2026
GPA: 3.3/4.0

Experience

Taking Prophets | New York, NY
Co-Founder & CTO | 01/2025 - Present

- Engineered a Flask REST API to process TradingView webhooks and execute orders across 17 different brokers with sub-second latency.
- Architected and secured a PostgreSQL backend (AES-256 encryption, JWT auth) to manage users and multi-account workflows, achieving SOC-2 readiness with zero security incidents.
- Leveraged Python's multiprocessing to parallelize position orchestration, significantly reducing latency and reliably managing high volumes of concurrent jobs.
- Built real-time cross-broker sync scripts that slashed manual reconciliation by 90% and maintained portfolio consistency across four platforms, utilizing React for front-end development.
- Scaled the SaaS to onboard 500+ active subscribers, growing the new user rate by 254% over a 3-month period.

Archaide | Remote
Software Engineering Intern | 12/2024 - 05/2025

- Built and deployed Python-based equities & derivatives trading algorithms with sub-second REST API integrations to Interactive Brokers and Alpaca, supporting low-latency execution and maintaining 99%+ live-trading uptime across diverse market conditions.
- Designed and implemented order-management pipelines in Python/C++/JavaScript, incorporating robust error handling, logging, and reconciliation mechanisms to reliably support multiple client-specific strategies with real-time feedback loops.
- Integrated risk-management safeguards (position limits, kill-switch logic, and automated rollbacks), reducing exposure to order mismatches and preventing execution failures.
- Automated lead-capture and onboarding workflows with Zapier CRM/email/messaging integrations, cutting manual effort by 80%+, accelerating client conversion rates, and enabling the team to scale client acquisition without additional ops headcount.

Quiver Quantitative | Remote
Software Engineering Intern | 03/2024 - 08/2024

- Engineered a production-grade Python OCR pipeline leveraging Tesseract to parse thousands of publicly filed trading documents with 95%+ accuracy, transforming raw filings into structured, analytics-ready datasets consumed by internal research teams.
- Optimized preprocessing (image normalization, token filtering, parallelized batch runs) to cut error rates and reduce end-to-end pipeline latency by 30%, ensuring consistent performance on diverse document formats.
- Migrated core workloads to GCP (Cloud Functions, BigQuery), boosting throughput by 4x while introducing auto-scaling capabilities that sustained ingestion spikes without downtime.

Projects

Personal Machine Learning Project | 02/2024 - 12/2024

- Built and tuned an XGBoost model in Python to forecast sports outcomes, using temporal backtesting and hyperparameter optimization to boost accuracy by 20%.
- Automated data ingestion and maintenance with Python, SQLite, and REST APIs, keeping a 2M+ record database up to date.

Skills

AES-256 Encryption, APIs, AWS/GCP, Bash, C, Git, HTML, Java, Python, PyTorch, scikit-learn, XGBoost, React