DRUCE VERTES
APPLIED AI LEADER

✉ druce@druce.ai 📞 +1 917-945-3782 📍 11 Schermerhorn St, Brooklyn NY 11201

🌐 druce.ai druce drucevertes

SUMMARY

- Consultant on AI, agentic systems, machine learning, alternative data, predictive analytics, agentic software development
- Developer, quantitative analyst, IT manager with leading hedge funds (Tiger, Caxton) and other Wall Street firms since 1992.
- 3 years as CTO of a $2B long/short equity hedge fund.
- Objective: AI strategy, applied AI engineering in investment management

EXPERIENCE

StreetEYE, LLC · Founder · 2011 to Current · New York, NY

Independent consultant, startup projects, generative AI.

- Tuck Advisors: Director of AI, architected and consulted on agent automation workflows, RAG, OpenAI Assistants API and Custom GPTs
- Evercore: Delivered generative AI POCs for sell-side research including summarization, RAG, text-to-SQL, ReAct agent workflows, and advanced prompt engineering. Co-authored firm white paper on gen-AI adoption strategy, opportunities, and risks.
- Steadfast Capital: Developed and deployed production ML classifiers for alternative data signals using Scikit-learn, Keras, and ensemble methods. Helped implement DataRobot and ML workflows. Models processed 100+ fundamental and technical dimensions daily across US equity universe.
- StreetEYE.com: Built ML-powered news aggregator for financial markets using NLP (NLTK), neural networks (Keras/TensorFlow), and social media.
- Market blogging: Alpha Architect, Towards Data Science, CFA Inside Investing, Advisor Perspectives, AAII Journal, ValueWalk, Seeking Alpha, Benzinga.

Hoplite Capital Management · Chief Technology Officer · 2008 to 2010 · New York, NY

Managed all technology functions for a Tiger Cub long/short equity hedge fund, 25 staff, $2B+ AUM.

- First technology hire and CTO for Tiger Cub long/short equity fund (25 staff, $2B+ AUM). Responsible for all technology infrastructure: order management, real-time P&L and analytics, electronic trading, disaster recovery, and cybersecurity, supporting PM, analysts, and back office.
- Brought infrastructure, front- and back-office tech stacks up to industry best practices for efficiency, business continuity and cybersecurity.
- Owned front- and back-office tech stack: Eze OMS, FIX electronic trading with 10+ broker connections, Oasys post-trade matching, compliance monitoring, and security master. Managed relationships with 10+ critical vendors including research content management (Tamale), accounting (SS&C Advisorware), investor relations (PerTrac CMS). Passed investor due diligence and security audits from major institutional LPs and 3rd-party consultants.
- Owned IT infrastructure: network architecture, disaster recovery site with 1-hour RTO, 5-minute RPO, Bloomberg, Citrix/VPN remote access, mobile device management, and Avaya IP telephony with ringdown trading lines.
- Implemented real-time P&L and attribution (Excel/VBA/SQL), and integrated data pipelines for portfolio analytics and back-office workflows.

Charles River Development · Implementation Manager · 2005 to 2007 · New York, NY

Consulting engagement manager for a leading investment management system vendor, focused on NY hedge funds.

- Led implementations of Charles River IMS for major hedge funds (Moore Capital, Atticus), delivering complex trading desk, portfolio analytics, and compliance solutions on accelerated timelines. Served as primary technical contact during complex multi-month enterprise deployments.
- Reengineered trading workflows (multi-asset blotter, FIX trading), portfolio analytics (P&L, attribution, risk), and post-trade operations (reconciliation, compliance), including requirements gathering, workflow design, system configuration, parallel testing, and go-live support with zero downtime.

StreetEYE, LLC · Independent Consultant · 1995 to 2005 · New York, NY

Independent software development consultant focused on capital markets, trading, hedge funds. Selected engagements:

- CF Global Trading: Interim CTO for outsourced global equities trading desk.
- FX Alliance, LLC: Managed development of Web platform for leading multi-dealer FX trading startup.
- Goldman Sachs: Managed development of Web platform/CMS for FX research sales and trading.
- Morgan Stanley: Implemented analytics and reporting for hedge fund client services.
- FAME: Comprehensive online demo suite for time-series database provider.

Caxton Corporation · Analyst · 1993 to 1994

Developer/front office analyst for leading macro hedge fund. Implemented platform for economic and fundamental data in major global markets in FAME; developed portfolio analytics in FAME, Perl and Excel; Identified country and sector trading ideas using proprietary analytical tools.

Tiger Management Corporation · Developer/Analyst · 1991 to 1992

Developer of early OMS platform for equities, fixed income, derivatives trades (C++, HP-UX, SQL); created Tiger's first real-time P&L spreadsheet.

Salomon Brothers Inc. · Quantitative Research Analyst · 1986 to 1991

Quantitative research and economics analyst. Published research, built portfolio optimization systems and economic forecasting models.
Built portfolio optimization system using Salomon's proprietary multi-factor risk model. Estimated volatility, tracking error vs. benchmarks, and factor exposures; constructed optimized portfolios using linear and quadratic programming. Worked with institutional clients for onboarding and portfolio structuring. Created models of economic indicators like CPI using FAME and spreadsheets. Ran forecasts and published research. Briefed trading staff, clients on economic releases.

EDUCATION

Columbia College, New York, NY: B.A. Computer Science/Economics

Lycée Français de New York: French Baccalaureate C (Math/Physics)

CFA Institute: Awarded CFA Charter 2009 (not current)

Coursera: Machine Learning (Ng), Statistical Learning (Hastie/Tibshirani), R Programming, Practical Machine Learning (R), Game Theory

SKILLS

LANGUAGES: Python, R, JavaScript, C/C++, SQL, Java, HTML/CSS, Matlab, Perl, Excel/VBA

PACKAGES/ALGORITHMS: AI SDLC, prompt engineering, evals, agents, AI-assisted coding, Sklearn, Keras, TensorFlow, Numpy, Scipy, Pandas, Supervised, Unsupervised, and Reinforcement Learning, Deep Learning, RNNs, CNNs, NLP, Topic Modeling, Data Visualization

ENVIRONMENTS: Windows, Linux (Ubuntu), AWS, Google Cloud Platform (including AI Studio), Azure (including AI Studio), Docker