Owen Tillger

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New York University • *New York, NY*
B.A. in Politics and Computer Science • *2022*
Game Theory • Economic Theory • Advanced Data Structures • Linear Algebra • Discrete Mathematics • Constitutional Law & Policy

Work Experience

OTTR • *Freelance/Self-Funded, Chief Architect*   *2023* – **Present**
A think tank for cutting-edge software and financial technologies.
- Spearheaded development of proprietary quantitative trading strategies (ATLAS) for the crypto and equities markets.
- Designed and deployed full-stack applications with end-to-end scalability across a range of technologies.
    - Clickroot, Sandbox Research, Astrala, and more.
- Building TruthGuard, a decentralized news verification protocol meant to introduce abstracted information whilst removing biases.
- Developed multi-asset volatility strategies using custom-built smart contracts and real-time sentiment ingestion pipelines.
- Ran empirical studies on liquidity slippage and game-theoretic arbitrage in synthetic derivatives markets.
- Drafted internal research papers bridging token economics with political theory.

SmartStructure Investment Models – Brookhaven, PA • *Head of Product & Growth Strategy*   *Sep 2024 – Jul 2025*
Fintech firm reimagining portfolio design through bespoke algorithmic modeling.
- Orchestrated the full-stack development and UX architecture of the firm's proprietary investment simulator and portfolio optimizer.
- Directed a rebranding and digital expansion strategy, resulting in a +1200% in site engagement and conversions.
- Consulted on client portfolios and translated complex financial outcomes into digestible copy and design across the user funnel.

Apple, Inc. – New York, NY • *Lead Product Specialist*   *Sep 2019 – Aug 2020*
- Led high-impact, high-volume retail operations at the world's most frequented Apple Store, Fifth Avenue, Manhattan.
- Provided concierge-level sales to high-profile individuals including David Blaine and Shaquille O'Neal.
- Consistently ranked top 1% for AppleCare+ sales (#1 internal success metric).

Wharton Advisors – Plymouth Meeting, PA • *Analyst, Tech & Benefits Division*   *May 2017 – Sep 2017*
- Developed backend optimization scripts and data-cleaning pipelines for insurance and retirement analytics.
- Co-designed an algorithmic auditing system that reduced processing time for benefits cases by over 40%.
- Received early commendation for precision debugging across legacy Excel-to-SQL bridges.

Leadership Experience

Pennsylvania Free Enterprise Week – Erie, PA • *Group Strategist & Executive Lead*
- Led cross-functional student team to highest simulated stock performance across 300+ peer companies.
- Integrated advanced pricing models and behavioral economics frameworks into pitch and marketing campaigns.
- Selected by advisors for peer mentorship and leadership distinction award.

Varsity Golf Captain – Doylestown, PA • *Central Bucks West*
- Rebuilt morale and strategic cohesion following major team roster losses, leading to a winning season.
- Coordinated with local business sponsors and alumni to secure additional training opportunities and funding.

YMCA – Doylestown, PA • *Program Director & Community Builder*
- Tripled client intake (75 → 200) by engineering partnerships with local nonprofits and religious groups.
- Designed and led leadership training programs for junior mentors, emphasizing interpersonal communication and civic values.

Personal Endeavors • *Technical Lead, Research & Development Initiatives*
- Assembled and directed agile teams of engineers, designers, and researchers to pursue high-conviction personal projects.
- Overseeing all phases of product lifecycles–from ideation and prototyping to deployment and optimization.
- Fostered a collaborative research culture that emphasizes rigor, experimentation, and cross-disciplinary dialogue.

Additional Information

Technical Languages & Tools: Solidity • JavaScript, TypeScript, Python, Node.js, Next.js, React, SQL, MongoDB, GA4, Adobe Platforms
Spoken Languages: English (*Fluent*), Mandarin Chinese (*Conversational*), French (*Conversational*)
Interests & Disciplines: Debate, Politics & Geopolitics, Philosophy, Finance, Computing, Writing, Literature, Music, History, Sports