

KAI DUNHAM

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EDUCATION

UNIVERSITY OF WISCONSIN–MADISON

May 2029

Bachelor of Science in Industrial and Systems Engineering

Minor/Certificate: Manufacturing Engineering | GPA: 3.4/4.0

Skills: Python, SQL, Claude API, Monte Carlo Simulation, PDF/NLP Data Extraction, Excel, CAD

PHILLIPS EXETER ACADEMY

Jun 2025

TECHNICAL PROJECTS

Meridian – Quantitative Polymarket Trading Engine

Feb 2026 – Present

Independent Technical Project

- Built an end-to-end algorithmic trading engine on Polymarket's CLOB implementing a market-making strategy; backtested over
- 4,583 simulated trades achieving a 79.71% win rate and Sharpe-like ratio of 1.50
- Live paper runtime logged 8,407 ticks, 639 fills, and 541 signal-agreed executions with zero disagreements across a 120-signal universe
- Engineered a risk engine (exposure caps, daily loss limits, auto-unwind hysteresis, kill-switch) and intent orchestration pipeline processing ~6,480 daily intents at a 29.63% allowed rate with full block-reason telemetry
- Stack: Node.js (ESM), Python, Polymarket CLI + CLOB API, Polygon RPC

FABINTEL – Semiconductor Manufacturing Intelligence Platform

Dec 2025 – Present

Independent Technical Project

- Built a system that translates fab-level semiconductor disclosures into structured operational signals, extracting process node exposure, utilization commentary, CapEx intensity, and yield risk language
- Designed a Monte Carlo–driven Fab Health Score (0–100) that probabilistically quantifies manufacturing execution risk by simulating distributions across yield, utilization, and capital expenditure variables
- Implemented source-linking architecture to trace every extracted insight back to its original disclosure, ensuring evidence-backed, non-hallucinated analysis

PROFESSIONAL EXPERIENCE

ELKANO

Jan 2026 – Present

Software Engineer | Mining Private Equity Fund

New York, NY

- Designed and built an automated pipeline to extract structured deal intelligence from NI 43-101 mining technical reports, parsing resource estimates, grade distributions, and geological risk indicators across 50+ page disclosure documents
- Integrated Claude API with orchestration workflows to populate a live deal tracker, reducing analyst data entry from ~3 hours to under 5 minutes per report
- Developed extraction logic to flag geological metrics tied to the fund's investment thesis, enabling systematic screening of exploration-stage assets before public price discovery

STRATO VC

Feb 2026 – Present

Analyst | \$3M Pre-Seed Fund

Madison, WI

- Source and evaluate early-stage undergraduate-founded startups; conduct structured diligence including market sizing, competitive analysis, and founder assessment
- Draft investment memos and present findings to internal Investment Committee for portfolio allocation decisions

ENTREPRENEURIAL EXPERIENCE

UNIQUE PLUG

Aug 2018 – Dec 2023

Founder and Owner

Greenwich, CT

- Founded and operated a sneaker and streetwear resale business generating over \$20,000 in revenue
- Differentiated business through restoration, and upcycling, and thorough sourcing
- Built supplier and buyer networks spanning wholesalers, boutiques, and private collectors across the Northeast

ADDITIONAL INFORMATION

Investment Experience: Early-stage analysis of Natrion (solid-state battery materials)

Affiliations: Badger VC, Wisconsin Private Equity Club, Badger Blockchain, Sigma Alpha Epsilon

Community: 90+ hours volunteering with Neighbor to Neighbor, supporting local families through food and household distribution

Interests: Semiconductors, Poker, Energy, AI Infra, Mining, Hiking, Streetwear, Sports Analytics, Catan, OpenClaw