Bear Januszewski

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Software engineer, quantitative background. Fullstack development, main language is Python. Projects, code and write-ups: bear.taildff039.ts.net. Looking for full time work as a SWE, interested in startups.

EXPERIENCE

Aspect Investors, Independent Software Consultant *Dallas, TX · search-fund private equity · $135M AUM · May 2026 – Present*

- Sole engineer on the firm's internal platform: FastAPI backend in Python, TypeScript/React frontend. Ingestion for searcher applications and deal flow, with inbound and outbound delivery in production.
- Own deployment end to end: Docker on self-hosted bare metal, continuous deployment through GitHub Actions runners, permission-gated API access for AI agents and data protection in prod.

Yggdrasil Financial Technologies, Founder and Sole Engineer *Dallas, TX · compute indices · Dec 2025 – May 2026*

- Founded pre-seed stage company focused on bringing indices tracking the price of compute to market. Designed around the Compute Unit, a normalization metric I invented for heterogeneous accelerators, split into Training and Inference units because the two workloads are bound by different physics. Provisional patent filed January 9, 2026.
- Prototyped and ran the pipeline behind the index: 54M+ price ticks, 28 providers at peak (15 reporting today), 56 accelerator models across GPU, TPU, LPU, NPU and ASIC. Collectors, Parquet + DuckDB, materializer and scheduler in Docker, consistent uptime and still collecting.
- Found a large skew of 250% between hyperscaler and neocloud price listings. Took product direction from Goldman Sachs futures sales. Began raising in March; wound down in May after Silicon Data–CME and Ornn–ICE.

98|23 Capital, Quantitative Research Intern *Dallas, TX · multi-strategy hedge fund · $677M AUM · May 2025 – Oct 2025*

- Built an RRG and PCA-based regime system over 63 years of daily prices and 13,674 tickers, automated its signal generation, and assisted in extending the firm's backtesting infrastructure.

PROJECTS

cu-index, chain-linked price index for GPU compute *live index prototype here · Dec 2025*

- Prototyped a financial index as a chain-linked geometric (Jevons) index over matched listing relatives, base 2026-02-18 = 100, with per-day quality grading. Alongside a separate daily price level denominated in dollars per CU-hour.
- 54M+ ticks, 28 providers at peak (15 reporting today), 42 GPUs.

CU Benchmark Suite, github.com/Yggdr-zil/bm-suite

- Measures what an accelerator actually delivers across five dimensions: GEMM throughput at FP32/FP16/BF16/FP8, memory bandwidth, usable VRAM by binary-search allocation, interconnect bandwidth, inference throughput. NVIDIA and AMD.
- Locks clocks and power limit, holds sustained GEMM to thermal steady state, reports a trimmed mean and falls back to the median when throttling makes the distribution bimodal. Reports sealed with SHA256. 7 test modules, CI.

financial_plumbing, github.com/B2q06/financial_plumbing *In production*

- Daily price store for about 51,000 US-listed instruments with a security master keyed by FIGI. Postgres holds definitions, parquet holds series, DuckDB joins them at read time. About 350M bars in 3.6 GB.
- Full-history re-pull on any split or dividend, temp-then-rename writes, a lock between jobs, etc. Deployed by a self-hosted GitHub Actions runner on push to production. Daily data refresh

eliteweb.ai, eliteweb.ai *Personal project, live to interact with*

- AI voice agents for small businesses: answer inbound calls, qualify leads, book appointments, send email confirmations, sync calendars. Built solo as potential venture avenue.

SKILLS

Languages - Python, SQL
Backend and data - FastAPI, Pydantic, PostgreSQL, TimescaleDB, DuckDB, Parquet, pandas, NumPy, scikit-learn
Infrastructure - Docker and Compose, GitHub Actions, Dokploy, Linux, systemd, cron, nginx, Tailscale, Traefik, uv, pytest, Git
AI - Ollama, Instructor

EDUCATION

Texas Tech University - Interdisciplinary Studies: Computer Science, Philosophy, Chinese. Aug 2024 – May 2026.
Southern Methodist University - Chinese. Aug 2026 – present

OTHER

Boy Scouts of America - Eagle scout, troop 82
Athletics - Rowed crew for DUC 3 years