ABHINAV ARVIND

US Permanent Resident – Work Authorized (No Visa Needed) | Atlanta, GA (open to relocation to SF/NYC)
abhinav3713@gmail.com | (404) 673-4894 | abhinavarvind.pages.dev | github.com/navarv0701 | linkedin.com/in/abhinav-arvind

EDUCATION

University of Illinois at Urbana-Champaign — Champaign, IL
Bachelor of Science in Finance + Data Science, Minor in Computer Science — *Class of 2026*
GPA: 3.79/4.00 | Institutional Honors: High Honors | 3x Dean's List
Coursework: Data Structures and Algorithms, Modeling for Machine Learning, Data Management and Curation, Linear Algebra, Discrete Structures

EXPERIENCE

Self-Employed — Remote
Freelance AI Engineer — *Sep 2026 – Present*
- Building, solo, a multi-agent recruiting pipeline for a staffing firm that spends $2M+ a year on third-party search and data providers; turns jobs from its ATS or any document into a private scoring rubric and a public search spec, sources candidates, and returns an evidence-backed ranked shortlist; projected to save $1M+ a year
- Kept confidential client details out of every outward-facing step: agents that touch the outside world have no code path to private data (import graph tested on every change), and a fail-closed leak gate adds deterministic, model and human checks
- Made scoring auditable: every judgment cites the candidate's own words, ranking is computed in code rather than by the model, and every model call is logged with prompt version, model, cost and the recruiter's decision
- Designed evaluation like a held-out test set (sealed historical hires, frozen configs, canary secrets for leakage); one provider layer runs each agent on Claude, OpenAI or local models (Python, FastAPI, React/TypeScript, SQLite); output reviewed by the firm on live roles; deployment under way

Innova Solutions — Atlanta, GA
Data Science Intern — *Jun – Aug 2025*
- Engineered a statistical validation and scoring tool for a schema-based AI-powered ETL agent, using synthetic test data and structural-sampling tests to score the agent's output and catch transformation errors before production deployment
- Built predictive models on 1M+ insurance claims to flag ones likely to stall; presented a proof of concept placing the model at hospital claim submission, projected to cut resolution by ~11 days (260+ hours) per claim for 100K+ affected claims a year
- Built a reusable Python framework automating data transformation, EDA and clustering, cutting pre-analysis time 40%+

Illinois Business Consulting — Champaign, IL
Senior Consultant — *Sep 2022 – May 2024*
- Evaluated GenAI and agentic workflow platforms for a large insurance provider's investment management arm, conducting cost-benefit analysis of automation solutions and presenting an enterprise AI adoption roadmap to senior leadership

ENGINEERING PROJECTS

Autonomous Multi-Agent Investment System — Remote
Independent Developer — *Oct 2026 – Present*
- Building a system that runs an investment cycle end to end: agents choose a policy, interpret signals, critique each other and allocate within limits; a deterministic risk officer approves, then orders execute on a paper brokerage
- Enforced authority in code, not prompts: models choose only inside options computed by deterministic services, through schema-checked calls with cost budgets; the ledger refuses unapproved trades, and live trading needs three sign-offs
- Designed an agent-driven build pipeline: a scheduled cloud agent implements queued tasks, gated by ~480 tiered tests and reproducible model-reply fixtures, and I review and merge each batch; per-agent routing runs Claude or local models

TRADING AND QUANTITATIVE RESEARCH

Derivatives and Trading Academy (FIN 412, FIN 416, FIN 428) — Champaign, IL
Student Trader — *Aug 2024 – May 2026*
- Built Python research tooling for strategy evaluation: backtesting and analytics on large intraday datasets, options pricing and volatility models, and robustness testing with Monte Carlo simulation and bootstrap confidence intervals
- Built real-time dashboards and sizing models for Rotman, CME and Bloomberg; optimization models for IMC Prosperity 4

FIN 419 — Real Client Managed Portfolios — Champaign, IL
Student Investor — *Aug – Dec 2025*
- Built VAR models on macro data (ISM PMI, CPI, yield curve) to signal growth and inflation for a $500K real-money portfolio

SKILLS

Languages: Python, TypeScript, SQL, C++ | **Frameworks:** FastAPI, React, pydantic, SQLite, pandas, NumPy, scikit-learn
AI systems: Claude and OpenAI APIs, local models (Ollama), multi-agent orchestration, structured outputs, LLM evaluation
Interests: Poker, F1, Trading, Mountaineering, Writing