

Aedan W. Chiari

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Python • Rust • SQL • Dagster • Polars • DuckDB • Pandas • Delta Lake • Kubernetes • Bloomberg

EDUCATION & CERTIFICATIONS

University of Southern California, Marshall School of Business | May 2023

BS Finance (3.75 GPA, Magna Cum Laude) | Minor: Applied Data Analytics

FINRA Series 65

PROFESSIONAL EXPERIENCE

SitusAMC | Denver, CO

Quantitative Developer | Hedge Advisory | Aug 2023 - Present

- Built production analytics platform in Python processing 1M+ loan records daily with 99.9% uptime, delivering automated dashboards and risk reports within 30-minute SLAs for pre-market hedge decisions
 - Achieved 75% faster computation through Python infrastructure modernization: migrated from Access/Excel to Polars/DuckDB with Arrow zero-copy processing, implemented Delta Lake on S3 for versioned storage with ACID guarantees, and deployed distributed task execution using Celery/RabbitMQ
 - Built real-time market data pipeline with Dagster ingesting Bloomberg/CME/Refinitiv feeds to generate yield curves, volatility surfaces, and portfolio risk metrics
 - Deployed containerized applications to Kubernetes using Docker and Azure DevOps CI/CD pipelines
 - Built systematic hedging strategies using interest rate swaps, treasury futures, TBAs, and options to manage duration and convexity risk, rebalancing positions based on cash flow dynamics and volatility
 - Developed PnL attribution framework enabling systematic analysis by decomposing returns into market movement, hedge effectiveness, and carry across \$50m+ multi-instrument books
 - Mentored junior analysts on Python data engineering best practices (Dagster orchestration, DuckDB optimization), enabling delivery of production pipelines reducing manual reporting time by over 60%
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PERSONAL PROJECTS

Derivatives Pricing Library | github.com/aedan-chiari/rust-quant

- Built high-performance derivatives pricing library in Rust with Black-Scholes option pricing, full Greeks calculation (delta, gamma, vega, theta, rho), and yield curve bootstrapping with multiple interpolation methods
- Achieved 10-30x speedup over Python implementations through AVX2 SIMD vectorization and Rayon parallelism, with zero-copy PyO3 bindings for seamless integration
- Designed type-safe functional API with comprehensive test coverage validating against market-standard models