

Alec Meeker

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SUMMARY

AI systems engineer who independently designed and built a production newsroom infrastructure with a 255 GB PostgreSQL data warehouse and multi-agent orchestration on the Anthropic Claude SDK, processing real editorial workflows for a live news publication serving 6M+ readers. Former fixed-income research analyst responsible for \$200M in allocation decisions on a \$13B institutional portfolio. Seven-year owner and CEO of a Brooklyn digital media organization. Passed Level I CFA exam (top quartile, all sections).

PROFESSIONAL EXPERIENCE

Bushwick Daily / Brooklyn New Media, LLC

Owner, Publisher & CEO

New York, NY

February 2018 – Present

AI Systems & Production Infrastructure

- **Production AI infrastructure:** Designed and built a production system encompassing a 255 GB data warehouse, 1.79M ingested articles from 75+ outlets, 218K processed emails, 8M+ semantic search chunks, 453K participant records, and 10K sender profiles. Full system architecture detailed in [published white paper](#).
- **Multi-agent orchestration:** Engineered a news research system on the Anthropic Claude SDK and LangGraph, with a coordinator agent dispatching parallel researcher agents (database, email, web) that extract stories with structured 5W analysis from internal databases and external sources, reducing daily news monitoring from 3 hours to 15 minutes.
- **Data warehouse & semantic search:** Built on PostgreSQL 17 with pgvector, implementing HNSW vector indexes for sub-100ms semantic search across 8M+ chunks, Reciprocal Rank Fusion combining vector similarity with full-text search, and a 7-step email ingestion pipeline with 16-category AI classification, cutting email triage time by 80% and article research time by 80%.
- **Adaptive memory system:** Engineered 4-level scope hierarchy (global, organization, project, sender), deterministic quality gates (10% magnitude, 60% confidence, 5-minute debounce), and an effectiveness tracker that learns from human feedback through the AUDN reconciliation cycle, informed by research on Mem0 and MemGPT architectures.
- **Intelligent email assistant:** Processing 200+ daily emails with context-aware response generation, few-shot learning from 11,332 historical examples, sender profile intelligence across 10K profiles and 453K participant records, and Playwright-based browser automation for form filling, all with human-in-the-loop approval gates.
- **Multi-model AI pipeline:** Claude Code with Anthropic SDK integrated throughout: Claude for generation and deep research orchestration, Haiku for cost-efficient classification, Gemini Flash for routing, and GPT-4 for specialized tasks. Achieved production reliability at ~\$50–100/month through Celery task queues and Redis job management.

Operations, Leadership & Stakeholder Management

- **Government & institutional partnerships:** Built and maintained trusted relationships with NYC Mayor's Office, Department of Education, CUNY Journalism School, LION Publishers, and Craig Newmark Center for Community News across two mayoral administrations, serving as primary liaison for policy coordination, briefings, and collaborative initiatives. Secured \$150K+ in city contracts.
- **Team leadership:** Managed a 20+ person cross-functional organization across editorial, sales, marketing, and technology. Led recruitment for 30+ journalists and 4 editors, developed a structured CUNY internship pipeline resulting in 15 full-time hires, and led 3 organizational restructures improving unit economics by 35% while maintaining 98% talent retention.
- **Business development:** Acquired and grew the business from pre-revenue through two strategic acquisitions totaling \$160K, executing DCF and Gordon Growth Model analysis. Negotiated partnerships with 100+ local businesses and launched the Passport to Bushwick initiative, achieving 25% YoY revenue growth.

Erie Insurance / Erie Indemnity Company

Investment Analyst

Erie, PA

January 2015 – March 2017

- **Portfolio analysis:** Managed and analyzed a \$200M investment portfolio across energy and mining sectors, delivering comprehensive credit, yield, and duration analysis supporting Erie's \$13B total asset portfolio.
- **Fund due diligence:** Led due diligence on 5 middle-market PE, mezzanine, and real estate funds resulting in \$100M+ in capital commitments; maintained relationships with 20+ General Partner fund managers.
- **Sector reallocation:** Spearheaded \$50M initiative, translating complex market analysis into clear recommendations for the senior investment committee, achieving 210bps outperformance.
- **Macroeconomic analysis:** Tracked and maintained in-house Inflation Dashboard; presented monthly findings and policy-relevant analysis to the Asset Allocation Committee.
- **Automation:** Engineered VBA/SQL automation for Emerging Market Debt portfolio analytics, reducing reporting cycle by 70%.

Bank of America Merrill Lynch / BNY Mellon

Management Intern / Performance Analytics

Erie & Pittsburgh, PA

2013 – 2014

- Analyst rotations across wealth management compliance and institutional performance analytics; developed SQL-based reporting systems for client document review.

EDUCATION

University of Pittsburgh, College of Business Administration

2011 – 2014

B.S. Business Administration — Finance & Business Information Systems

Passed Level I CFA Exam (2015), Top Quartile in All Sections

SKILLS & TECHNICAL PROFICIENCIES

AI & Data: Multi-agent orchestration (Anthropic Claude SDK, LangGraph), LLM integration (Claude, Haiku, Gemini, GPT-4), Claude Code, semantic search (pgvector, SentenceTransformers), NLP (SpaCy NER), adaptive memory systems, data pipeline architecture, embedding generation

Technical: Python, SQL, VBA, React, FastAPI, PostgreSQL 17 (pgvector, HNSW indexes), Redis, Celery, Scrapy, AWS (Lambda, S3, API Gateway), Docker, Playwright

Financial: DCF analysis, financial modeling, portfolio analysis, fund due diligence, credit underwriting

Operations: Cross-functional team management, stakeholder engagement, vendor/partner management, capacity planning, strategic communications

Communications: Policy briefings, media relations, campaign coordination (cited by NYT, NY Magazine, Rolling Stone, Gothamist)

AWARDS & RECOGNITION

- LION Publishers \$20,000 Sustainability Audit Grant (2024)
- CCM Election Reporting Fellowship (\$2,500 personal; \$10,000+ sponsored through additional journalists)
- LION Publishers \$10,000 Grant for Sustainable Journalism (2023)