Donovan Murphy

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EDUCATION

Florida Institute of Technology **May, 2025**
B.S. Computer Science, Summa Cum Laude (GPA: 3.95/4) *Melbourne, FL*

- Full Academic Scholarship – Distinguished Scholar Award
- NCAA Basketball Team Captain (2024–25)
- Dean's List (All Semesters)

SKILLS & INTERESTS

- **Investment & Modeling:** DCF, LBO, Public/Precedent Comps, IRR, ROI, Alpha, Sharpe, Beta
- **Quant & Technical:** Python (pandas, NumPy, XGBoost), SQL, C++, React, Git, Excel (Advanced VBA)
- **Interests:** Basketball, weight training, running, investing, personal growth, and high-performance habits
- **Strengths:** Leadership & Team Collaboration, Technical Diligence, Financial Modeling, Ownership Mindset

WORK EXPERIENCE

Northrop Grumman **May. 2024 – Present**
Software Development Engineer Intern *Melbourne, FL*
Northrop is a Fortune 100 defense and aerospace firm managing complex, multi-billion-dollar systems.

- Led deployment of containerized LLMs on high-performance computing clusters, enhancing internal tooling for analysis and automation, mirroring technical diligence and portfolio value-creation frameworks in PE operations.
  - **Increased compute throughput by 20%** through optimization of memory and resource scheduling, demonstrating capital efficiency and system-level thinking.
- Worked cross-functionally across engineering, analytics, and operations teams, gaining exposure to scalable architecture and implementation discipline under strict delivery standards.

INVESTMENT & ANALYTICAL EXPERIENCE

RealEase - Real Estate Investment Analytics Platform **Mar. 2024 – Jun. 2025**
Founder & Technical Lead *Melbourne Beach, FL*
Developed a real estate analytics platform to simulate institutional-grade underwriting and value assessment.

- Forecasted ROI, cash flows, and performance KPIs across property portfolios using live API integrations and market data.
- Built ensemble ML models to **improve property-level ROI prediction accuracy by 15%**, simulating buy-side acquisition analysis.
  - Integrated a Salesforce backend to mirror real-time dashboards used in PE portfolio monitoring and investor reporting.

AlphaHunter - Equity Portfolio Strategy & Modeling **Jan. 2025 – May 2025**
Quantitative Research & Investment Project *Melbourne, FL*

- Designed and stress-tested **500+ U.S. equity portfolios** under realistic constraints, analyzing alpha, beta, Sharpe ratios, and volatility.
  - Applied PCA and XGBoost to uncover performance regimes and drivers of uncorrelated return streams, aligned with multi-strategy fund allocation thinking.
- Developed systematic alpha screens and stress-tested risk resilience under different market conditions.

Live Capital Account – Self-Directed Portfolio **Oct. 2023 – Present**
Investor & Portfolio Manager *Remote*

- Manage personal capital using multi-factor strategies, beta-neutral pair trades, and momentum-adjusted reversion models.
- Mindset focused on ownership, capital efficiency, and long-duration thesis conviction, mirroring buy-side.