Arnav Palawat

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EDUCATION

Westford Academy   Westford, MA
High School Degree — Coursework pertinent to **Computer Science** *and* **Finance**   *Projected June 2026*

PROFESSIONAL EXPERIENCE

Third & Jefferson Holdings   Sept 2024 – Present
Incoming Private Equity Intern   *New York City Metropolitan Area*

Internhs   May 2024 – Present
Founder & President   *Westford, MA*
- **Founded and incorporated** a nonprofit to provide high school students with early workplace exposure.
- Deployed a **Flutter** frontend and **Firebase** Authentication and Database to manage **500K+** Read operations
- Developed **APIs** to scrape javascript, and a recommendations algorithm involving **cosine similarity** using **scikit**

State Street Journal   June 2024 – Sept 2024
Financial Analyst Intern   *United States*
- **1 of 10** interns accepted into a competitive program with over **50** applicants (∼**20%**)
- Advised taking a short position on Tesla, Inc. and developed in-depth industry research to rationale such position
- Constructed a financial model containing a **comparables analysis**, **WACC** calculations and multiples-based **DCF** analysis to arrive at an overall valuation of **$343bn** as of FY 2028 driven by a **EV/EBITDA** multiple of **3.5x**

Dugree   June 2024 – Sept 2024
AI/ML Research Intern   *Bay Area*
- Writing a paper to reveal the effectiveness of **RAG** vs Non-RAG LLMs and **Prompt Engineering** of RAG LLMs
- Presented preliminary research findings regarding **DRL in Quantitative Trading** to graduate level students

Merciero   Dec. 2023 – Jan. 2024
Founder & Sole Proprietor   *Westford, MA*
- Generated **$800** in revenue within a span of 4 weeks through an e-commerce business providing men's jewelry
- Garnered over **8,000** people's attention by executing comprehensive social media **marketing** campaigns involving **A/B testing** and target market profiling across platforms like Facebook, Instagram, TikTok, and Pinterest

PROJECTS

Options Pricing (Binomial) using ARIMA | *Financial Derivatives, Time-Series Analysis, Python*   Aug 2024
- Built an **ARIMA** Model, trained upon 3 years of data to model 2 potential future states in time-frame (T+1)
- Utilized **logarithmic differencing** to ensure stationary data (d), plotted **ACF** and **PACF** (p, q) to fit the model
- Utilized the **Binomial Options Pricing Method** to fairly price and **hedge** options, ensuring both minimum risk and minimum price, intakes a strike price, ticker, and generated the 2 states from the **ARIMA** model

Swing Trading Algorithm using ARIMA | *Quantitative Trading, Python, Time-Series Analysis*   Aug 2024
- Built an **ARIMA** Model that predicts price action **14** days in the future, while being trained on **60** days of data
- Algorithmically plotted ACF and PACF to auto-fit the data, showing **82%+** accuracy in testing (0.8 train 0.2 test)

Political Party Wiki App | *Flutter, Firebase, Xcode*   Sept 2023 – June 2024
- Built and deployed an app on the Apple App Store and Google Play Store with **2000+** of downloads
- Created for and endorsed by the **5th largest** Indian political party—**Top 10** in the world by membership

AWARDS AND HONORS

Congressional App Challenge | *Mealify*   Dec 2023
- Awarded **3rd** place at the **state level** by building an app to bridge the gap between corporations and the homeless

DECA State Finalist | *Entrepreneurship Series*   Mar 2023
- **1 of 12 State** Level Finalists in the DECA Entrepreneurship series event and **2nd** Place in District Level

PERSONAL

Hard Skills: Excel, Financial Modelling, Time-Series Analysis, SQLite, Python, Flask, Scikit, Flutter, Firebase
Interests: Weightlifting, Entrepreneurship (Built several small business'), Volleyball, Building Apps (Coding)