Devon Lopez

(512)-787-8221 | devoninternships@gmail.com | www.linkedin.com/in/devon-lopez1/ | https://github.com/Delozz

EDUCATION

Texas A&M University, College Station, TX **Expected May 2028**

Bachelor of Science in Computer Science & *Minor in Mathematics*

EXPERIENCE

Texas A&M Quantitative Fund Factors Team, College Station, TX **January 2026 - September 2026**

Quantitative Developer

- Developed a Python **statistical arbitrage system** using **FinnBERT** sentiment and **mean reversion** signals to identify S&P 500 trades
- Ingested real-time financial data via **Finnhub** news API and **LSEG** market to support **factor research** and strategy development
- Collaborated as part of a **quantitative research team** to develop, backtest, and refine multi-factor systematic trading strategies
- Contributed to a **student-managed $60K portfolio** by developing and validating quantitative signals to inform investment decisions

DevBuilds, Cedar Park, TX **March 2025 - August 2025**

Founder

- Built and operated a **computer business** serving over **45+ clients** delivering custom PC builds repairs and setup optimizations
- Generated between **$1K–$2K revenue** through **hardware diagnostics**, **upgrades**, and system builds across gaming and productivity
- Maintained strong **client retention** by providing system upgrades troubleshooting and **performance optimization** for customers

PROJECTS

Long Short Term Model Stock Predictor Bot **November 2025 - June 2026**

- Developed an complete **algorithmic trading system** leveraging a **LSTM model** and **sentiment analysis** to predict stock movements
- Integrated **real-time financial news** using **Finnhub API** and **VADER sentiment analysis** to enhance predictive signal generation
- Executed approximately **four trades daily** achieving **60% prediction accuracy** and generating an average return of **2.8% per trade**
- Built a **modular pipeline** for **data ingestion**, **feature engineering**, and **backtesting** to support strategy evaluation workflows

Kalshi World Cup Trading Bot **June 2026 - July 2026**

- Developed a Python automated **quantitative trading bot** to identify pricing inefficiencies and execute trades through the Kalshi API.
- Engineered calibrated **Dixon-Coles** models with ELO ratings and **Kelly sizing** to achieve an **80% live betting profitable hit rate**
- Leveraged Claude Code to accelerate **software architecture**, modular development, and automated **production grade** testing

Custom 3D Physics Engine **July 2026 - September 2026**

- Engineered a C++ and OpenGL **3D physics engine**, deploying custom **GLSL** vertex and fragment shaders for **real-time rendering**
- Architected a rigid-body dynamics system utilizing **GLM** and **quaternions** to compute precise 3D orientation, torque, and gravity
- Designed a **collision response algorithm** leveraging Coulomb's friction law to compute multi-body normal and tangential forces

Network HomeLab **May 2025 - August 2025**

- Designed a personal **self-hosted infrastructure environment** using **Linux**, **NAS storage**, and containerized services
- Managed **containerized applications** using **Docker** and **Proxmox** to develop hands-on experience with DevOps workflows
- Configured and upheld **self-hosted services** including **Plex** and **AdGuard** to manage media streaming and network-wide ad blocking

LEADERSHIPS & EXTRACURRICULARS

TAMU Colorstack, *Outreach Chair* **August 2025 - Present**

- Organize social events and intramural activities to drive **community engagement** and **strengthen connections** among **~200** members
- Lead **member outreach** and **retention efforts** through targeted recruitment campaigns to grow an inclusive **CS community**

Aggie Investment Club, *Active Member* **February 2026 - Present**

- Selected member of a **student-managed investment fund** performing **analysis** and **financial modeling** to manage a **70k** portfolio
- Participated in **investment research discussions** and applied **market analysis techniques** to support data-driven decision making

First Generation Engineering Mentorship Program, *Mentee* **August 2025 - Present**

- Participated in a **program for first-generation engineering students** receiving guidance on academic and professional development
- Collaborated with a **senior Electronic Systems Engineering Technology mentor** to gain insights on coursework and career paths

SKILLS

Programming Languages: Python | C++

Technologies & Frameworks: Git | Linux | Vercel | Supabase | Railways | Claude Code

Certifications: CompTIA Security+ | Microsoft C++ Programming Fundamentals | Meta Programming in Python | Anthropic AI Fluency

Languages: English