

# FEDERICO TAFUR

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## EDUCATION

### Virginia Tech

College of Engineering

Bachelor of Science in Computer Science

Major: Computer Science

Minor: Finance

Languages: Spanish & English

### University of Central Florida (UCF)

June 2022 – May 2023

Blacksburg, VA

Expected: May 2026

Overall GPA: 3.4/4.0

Orlando, FL

Overall GPA: 3.90/4.0

## RELEVANT EXPERIENCE

### NexaDev Software Solutions

Data-Analyst and Lead Developer

San José, Costa Rica

Feb 2024 - Present

- Lead a 4-person engineering team through full product lifecycle, from requirements gathering to production deployment – now executing go-to-market strategy for Latin American expansion
- Architected and built AI-powered CRM platform with 3-step social media integration, automating lead qualification, response generation, and end-to-end pipeline management with intelligent human escalation for closure
- Built predictive matching models in Python and R using logistic regression and NLP, automating candidate-job scoring for 500+ monthly users and reducing screening time by 75%
- Designed Power BI dashboards tracking management, conversion rates, and funnel drop-off; delivered weekly stakeholder insights driving 30% improvement in recommendation accuracy

### Oaklet

Co-Founder, Data Scientist, & AI Engineer

Remote

March 2025 - September 2025

- Developed demand forecasting models using time-series analysis (ARIMA, Prophet) and regression in Python to predict daily platform usage, improving architecture and capacity planning accuracy by 25%
- Build executive KPI dashboards in Power BI visualizing operational metrics (throughput, latency, error rates) for leadership; insights drove 80% reduction in cloud infrastructure spend
- Led cross-functional collaboration with 6 engineers using Agile to deliver production system handling 50k+ daily API requests at <100s p95 latency

### TIMS International

SWE Intern

San José, Costa Rica

May 2024 - Aug 2024

- Analyzed 500k+ operational records using Python, R, and SQL to identify processing bottlenecks; recommendations reduced average query time by 15%
- Created Tableau dashboards and automated reports for 3 client teams, consolidating 20+ data sources into unified views for resource planning

### Varsity Soccer Student Athlete

Virginia Tech and University of Central Florida Varsity Soccer Team Member

Blacksburg, VA, Orlando, FL

June 2022 – May 2024

- Managed 30-40 hrs/week in training schedule alongside full coursework; competed 2 NCAA D1 programs achieving top 3 conference finishes

## PROJECTS

### Chronos ML Algorithm Trading

June 2025 - Present

- Engineered hybrid ML pipeline (CNN-LSTM-Transformer) processing 200+ features from market, sentiment, and macro data to forecast demand signals with 55% directional accuracy
- Implemented real-time data streaming with Kafka and Redis, reducing end-to-end pipeline latency by 40%; built risk optimization model (Kelly, CvaR) to balance throughput vs cost constraints
- Developed interactive Tableau dashboard displaying model predictions, confidence intervals, and performance metrics for scenario analysis
- Deployed live trading, generating \$500+ realized returns over 3 months with consistent 5-6% monthly ROI through ML-driver signal execution

## TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL, C++, Java
- **BI Tools:** Power BI, Tableau, Excel, Jupyter
- **Data Science:** Predictive Modeling, Time-series, forecasting, regression, classification, A/B Testing, ETL, Statistical Analysis
- **Cloud:** AWS (Lambda, DynamoDB, S3, Redshift, AWS Bedrock Agentcore), Snowflake, Docker
- **Certifications:** IBM Full Stack Software Developer Professional Certificate (edX), Meta Full-Stack Developer, IBM GenAI Engineering, Finance & Quantitative Modeling for Analysts