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LILITH FROUDE

WEBSITES, PORTFOLIOS, PROFILES

- linkedin.com/in/lilithfroude
- github.com/lilithfroude-ctrl/Portfolio

PROFESSIONAL SUMMARY

AI/ML engineer with an entrepreneurial edge—former startup founder now pursuing an MS in AI in Business. Technical portfolio includes multi-model prediction systems, interactive dashboards, and full-stack SaaS development. Brings rare fluency in both building models and communicating their business impact. Seeking roles where technical rigor meets strategic thinking: data science, ML engineering, or AI product development.

SKILLS

- NLP
- Model Selection
- Predictive modeling
- Multitasking and organization
- Strategic planning
- Agentic AI
- Big data processing
- Scikit-learn
- Analytical thinking
- Database management

WORK HISTORY

TECHNICAL SUPPORT SPECIALIST 08/2024 to Current
Arizona State University, Tempe, AZ

- Diagnose and resolve data discrepancies in financial aid database systems serving 80,000+ students, ensuring data integrity across enterprise platforms.
- Analyze support ticket data to identify recurring failure patterns, informing knowledge base development and reducing resolution time for common issues.
- Query and validate records across interconnected database systems to troubleshoot complex cases involving federal financial aid compliance (FERPA, Title IV).
- Collaborate cross-functionally with database administrators and senior technologists to escalate and resolve system-level issues impacting student data pipelines.

DEVOPS MARKETING INTERN 05/2023 to 08/2023
Algorand Foundation, Remote

- Conducted exploratory data analysis on multi-channel marketing data to identify high-performing audience segments and optimize targeting strategies.
- Delivered weekly analytics reports to leadership, translating raw metrics into strategic recommendations that informed six-figure ad spend decisions.
- Automated reporting workflows using Python/Excel to reduce manual data aggregation time by 50%.

- A/B test analysis — evaluated campaign variants using statistical significance testing to guide creative decisions.

EDUCATION

Arizona State University, W.P. Carey School of Business, Tempe, AZ
Master of Science, Artificial Intelligence in Business, Expected in 05/2026
GPA: 4.0
Relevant Coursework: Machine Learning in Business, Enterprise Data Analytics, Analytics for Unstructured Data, Business Data Visualization, Programming for AI and Data Analytics

Grand Valley State University
Bachelor of Business Administration, Marketing, Entrepreneurship, 01/2023
Minor: Digital Studies
Honors & Awards: 2nd Place, GVSU DEMO Day Pitch Competition
Entrepreneurship: Selected for 77 Ideas Lab (competitive startup incubator, 12 teams chosen from 100+ applicants) | National Semi-Finalist, E-Fest Pitch Competition | National Semi-Finalist, Smith College Draper Competition

PROJECTS

Protein Structure & Stability Prediction System (Python, TensorFlow/Keras, scikit-learn) Built end-to-end ML pipeline with three models selected for distinct tasks: BiLSTM for sequence labeling, Random Forest for classification, Isolation Forest for anomaly detection. Engineered features from 15,079 protein sequences (PISCES dataset): vocabulary creation, sequence encoding, amino acid composition analysis, and structural ratio calculations. Computational triage reduces initial screening from 6-18 months to minutes, saving $100K-$500K per structure in drug discovery.

Sky Harbor Airport Ride-Hailing Dashboard (Python, Streamlit, Tableau, Matplotlib) Built interactive real-time visualization dashboard for Phoenix Sky Harbor Airport's ride-hailing pickup zone. Implemented service color-coding system for Uber, Lyft, Waymo, and Taxi with dynamic statistics panels.

CommunityTap — Full-Stack SaaS Platform (React, TypeScript, Supabase, PostgreSQL, Stripe) Architected and developed hyper-local crowdfunding platform in 48-hour sprint, demonstrating rapid prototyping capabilities.

CrowdCtrl — Blockchain Event Ticketing System (Solidity, BASE/Ethereum L2, Next.js, Smart Contracts) Designed decentralized ticketing architecture using ERC-721 NFTs with automated royalty distribution (EIP-2981).

LEADERSHIP AND ACTIVITIES

- President, AI and Crypto Club - Arizona State University, Lead weekly technical discussions and organize industry events.
- StandWithCrypto Advocate, Supported pro-crypto legislation in Arizona including House Bill 2749.
- GVSU CEO Club

TECHNICAL SKILLS	Python, TensorFlow/Keras, scikit-learn, Pandas/NumPy, SQL, Feature Engineering, NLP, Statistical Modeling, Tableau, EDA, React, Next.js, Node.js, Cursor, Gen AI, Git, Github, Google Colab, VS Code.