

# Mohammed Alkindi

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## EDUCATION

**UC San Diego** B.S. Computer Science Incoming Fall 2026

**University of Pennsylvania** Non-Degree Program Sep 2025 – Apr 2026

Chess Club (VP Marketing) · Penn Quantum Computing Club · Claude Builder Club · Omani Students Association (Web Dev) · Penn Undergraduate Economics Society

## HONORS & AWARDS

- Thiel Fellowship Semifinalist (Feb 2026) — Top ~3% of 3,000+ global applicants; program backing high-impact founders under 23
- MIT Bitcoin Hackathon — Top 22/47 Teams (Apr 2026) — BridgX BTC-to-EVM bridge; recognized for execution and cross-chain systems design
- Oman National Scholarship — Ministry of Higher Education (Aug 2025) — Fully funded national award for academic excellence and leadership

## EXPERIENCE

### Data Analytics Intern — Shell May 2026 – Present

- Built automated Python pipelines for daily production reporting with deterministic KPI extraction and structured audit trails
- Engineered dashboard automation reducing manual reconciliation; outputs used directly in operational decision-making
- Analyzed large-scale operational datasets to surface insights supporting engineering and operations teams

### Founder and Lead Engineer — ProofX May 2025 – Apr 2026

- Built Germinal: LLM conjecture engine that formalizes hypotheses in Lean 4, runs 7 concurrent proof tactics, and searches for counterexamples via Claude, SymPy, and Wolfram Alpha — results labeled unrefuted rather than validated
- Built CollatzX processing 10M+ sequence iterations/sec with deterministic pipelines, hashed state-tracking, and audit-ready run logs
- Scaled from solo prototype to modular open-source framework; engaged MIT E14 Lab on reproducibility standards and commercialization

## SELECTED PROJECTS

### OmanX JavaScript, GPT API

- Government-ready AI onboarding system guiding Omani scholars through U.S. study processes using only approved official sources and structured escalation — deliberately restricted to prevent hallucinated advice

### BridgX Solidity, Next.js, Circle CCTP — MIT Bitcoin Hackathon

- BTC-to-EVM bridge with zero-fee USDC transfers and Odos smart routing between Avalanche and Base; deployed under 36-hour hackathon constraints

### Folio Python, embeddings, FastAPI

- Local document intelligence pipeline: ingests PDFs and text, semantic search with answers traceable to source and page number

### Corporate Financial Distress Prediction Python, scikit-learn, XGBoost

- Hybrid ML pipeline on 105K firm-year observations; K-Means segmentation + logistic regression (0.84 ROC-AUC, full interpretability); benchmarked against XGBoost (0.90 ROC-AUC)

### Quant Python, PyTorch, FastAPI, React

- AI trading assistant with LSTM price prediction, RL position sizing, sentiment analysis, anomaly detection, and Claude reasoning layer

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL, Solidity, Lean 4 **ML/AI:** PyTorch, scikit-learn, LSTM, RL, XGBoost, Claude API, FastAPI **Tools:** Git, HPC, React, Next.js, SQLite, pandas, NumPy, Metamask/EVM

## CERTIFICATIONS

Machine Learning Specialization · Stanford | CS50X and CS50P · Harvard | Using Python for Research · Harvard | Data Analysis and Visualization · Microsoft | Prompt Engineering · Vanderbilt