

# SALEH YAHYA

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## EDUCATION

### University of Illinois Urbana-Champaign

Dec 2027

Master of Science, Computer Science

- Relevant Courses: Database Systems, Scientific Visualization, Numerical Methods, Machine Learning, Data Cleaning, etc

### Lewis University

Dec 2026

Bachelor of Science, Computer Science (Concentration, Systems Programming)

- Teaching Assistant (TA) for Data Structures and Algorithms

### Lewis University

Dec 2026

Bachelor of Science, Information Technology

## PROFESSIONAL EXPERIENCE

### Lewis University

Chicago, Illinois

Quantitative Research Intern

Sep 2025 – Dec 2025

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### Paidwork

Remote

Machine Learning Engineer Intern

Sep 2025 – Nov 2025

- Improved identity verification reliability by building real time liveness detection features that use blink analysis, head movement tracking, and automatic best frame selection, reducing unusable frames by more than 30 percent.
- Increased document verification accuracy by retraining object detection and optical character recognition models across multiple international identification formats, improving text extraction and layout detection by about 20 percent.
- Strengthened fraud prevention by developing anti spoofing systems that use depth estimation and texture based models, lowering false accept rates for printed images and replay attacks by 25 percent.

### OveoAI

Irvine, California

Software Engineer Intern

May 2025 – Aug 2025

Engineered Python/FastAPI backend for AI pipeline, including image classification, facial detection, and liveness detection. Implemented real-time processing pipeline using OpenCV and TensorFlow, achieving 99.99% accuracy and 100% uptime. Designed and implemented a distributed system for processing high-volume video feeds, reducing latency by 50% and increasing throughput by 2x. Developed a REST API for client integration, supporting over 100 concurrent users. Integrated with AWS S3 for storage and Amazon Rekognition for image analysis, achieving 98% accuracy. Implemented a monitoring and logging system using Prometheus and Grafana, ensuring system reliability and performance.

## PROJECTS

### Chromium (Google) - Open Source Contributor | [Github](#)

C++, Python, Git

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### Automated Financial Analytics Engine | [Github](#)

Python, Scikit-learn, Gemini, FastAPI, Redis, MySQL, Plaid, Git

- Built a full data pipeline ingesting real financial data from the Plaid API into a FastAPI backend and MySQL database, including concurrent batch processing and Redis streaming for low-latency updates, improving ingestion throughput by 4x.
- Implemented regression and time series forecasting models alongside volatility, Sharpe ratio, beta, drawdown, VaR/ES, and Monte Carlo simulations, achieving under 8 percent prediction error on test data.
- Integrated LLM layer that converts raw transaction and portfolio data into interpretable insights, enabling natural social queries for anomaly detection, risk exposure, and allocation optimization, reducing manual financial analysis by over 60%.

## SKILLS

**Languages:** Python, C++, C, Java, JavaScript, TypeScript, SQL

**Frameworks & Tools:** Kubernetes, Git, Docker, FastAPI, REST API, Flask, Node.js, Express, Linux, PostgreSQL, MySQL, MongoDB

**Machine Learning:** PyTorch, Tensorflow, Keras, Scikit-Learn