

# KHALID ALRAIS

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Portuguese Citizen | UAE Golden Visa Holder

## Education

### Istanbul Aydin University

Expected Graduation: May 2025

Bachelor of Software Engineering

Istanbul, Turkey

- Coursework: Software Architecture, Object-Oriented Programming, System Design, Database Systems, Software Testing, Software Project Management, Data Structures and Algorithms

## Work Experience

### Headstarter

Oct 2024 – Present

Software Engineering Resident

Remote (New York, USA)

- Built **14+ full-stack, machine learning, and AI-engineering projects** in fast-paced software team environments.
- Developed applications with **Next.js, TypeScript, FastAPI**, and **LLM APIs** (OpenAI, DeepSeek, Llama 3.1) integrating **AI services** into full-stack applications.
- Implemented **LLM-chaining, hyperparameter tuning**, and **fine-tuning** on **10+ LLM models**, balancing **latency and accuracy**.

### ThingLogix

Jul 2024 – Oct 2024

Software Engineering Intern

Remote (Dubai, UAE)

- Built an OCR web application with **Next.js** and **Typescript**, integrating **AWS S3** and **API Gateway**, to support client document digitization.
- Created **10+ PRD and requirement specification documents**, ensuring alignment between technical implementation for **5+ clients'** needs.
- Researched and evaluated **12+ AI tools and AWS services**, selecting optimal technologies for **2 major projects**, improving system performance and scalability.

### NetOceans

Oct 2023 – Jan 2024

Front-end Developer Intern

Istanbul, Turkey

- Designed and deployed **5+ core features** using **React**, significantly enhancing **platform functionality and user experience**.
- Implemented and tested **3+ RESTful API integrations**, improving **data exchange efficiency and system reliability**.

## Projects

### Dev Overflow | GitHub

Next.js | MongoDB | TailwindCSS | OpenAI

- Developed a full-stack platform using **Next.js, MongoDB, NextAuth**, and **TailwindCSS**, featuring AI-powered answers, voting, and personalized content recommendations

### US-Bank Churn Prediction | GitHub

Langchain | Scikit-Learn | Streamlit | Groq

- Used a **30k+ dataset** with **multiple LLMs (Llama 3.1b, Deepseek, Groq)** to evaluate and improve churn prediction accuracy

### Financial Analysis & Automation with LLMs | GitHub

FastAPI | Pinecone | LangChain

- Ran similarity searches across **10k+ stocks** using **Pinecone, LangChain**, and **FastAPI** for the backend; optimized the data processing by parallelizing tasks with **10+ concurrent workers** to speed up the I/O bound.

## Leadership

### KhalidTechDev | Instagram | TikTok | YouTube

Jun 2024 – Present

- Created technical programming content for **30,000+** developers, reaching **2,500,000+** impressions

## Technical Skills

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

**Libraries/Frameworks:** NextJS, ReactJS, TailwindCSS, FastAPI, Flask, Node.js, MongoDB, PostgreSQL, Figma

**Developer Tools:** AWS, Postman, Git, Docker, Vercel, Jira