

# Khalid Alrais

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## EDUCATION

### Istanbul Aydin University (IAU)

Bachelor's Degree in Software Engineering

**Expected Graduation: Jun 2025**

Istanbul, Turkey

## SKILLS

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

**Software:** AWS, NextJS, React, Angular, TailwindCSS, FastAPI, Flask, Django, Nodejs, Express.js, MongoDB, Postgresql, Prisma, Figma, Postman, Git

## EXPERIENCE

### Software Engineering Intern

[ThingLogix](#)

**Jul 2024 - Oct 2024**

Remote (Dubai, UAE)

- Developed an OCR web application using Next.js, enhancing document digitization with an AWS S3-integrated API Gateway, streamlining the daily processing of over 100 files.
- Delivered the project within a strict **2-month timeline**, meeting client expectations and milestones

### Software Engineering Resident

[Headstarter](#)

**Oct 2024 - Present**

Remote (New York, USA)

- Built 14+ machine learning, ai-engineering and full-stack projects in fast-paced software team environments
- Developed 5+ neural networks in Python, 11 apps in Typescript on AWS/Vercel with dev and production environments
- Implemented llm-chaning, hyperparameter tuning, fine tuning on 10+ LLM models controlling for latency & accuracy

### Software Engineering Intern

[NetOceans](#)

**Oct 2023 - Jan 2024**

Istanbul, Turkey

- Designed and deployed 5+ core features using React, significantly enhancing platform functionality..
- Implemented and tested 3+ RESTful API integrations to facilitate seamless data exchange
- Developed 10+ modular components for a UI/UX interface in a white-label business management software solution

## AI PROJECTS

### Dev Overflow: Full-stack AI-driven Platform (~80 hours) - [GitHub](#)

**Oct 2024 - Present**

- Developed a full-stack platform using Next.js, MongoDB, NextAuth, and TailwindCSS, featuring AI-powered answers, voting systems, and personalized content recommendations
- Implemented 10+ interactive features, including theme toggling, question-and-answer functionality, voting systems, and personalized content filtering, enhancing user experience and platform engagement.
- Integrated a flexible authentication system (Email, Google, GitHub) and AI-driven answer generation using OpenAI for enhanced user interaction

### LLM Evaluation Platform (~30 hours) - [GitHub](#)

**OCT 2024**

- LLM Evaluation Platform Designed and implemented a Prisma-backed PostgreSQL database managing 1000+ data points to evaluate 3+ LLM models in addition to Gemini 1.5 for evaluation.
- Developed a full-stack application using Next.js for the frontend and Express.js/Node.js for the backend, enabling seamless integration and performance optimization.

### US-Bank Churn Prediction (~25 hours) - [GitHub](#)

**Nov 2024**

- Used 30k+ data set, Llama 3.1b, Groq and OpenAI to evaluate accuracy of predicting when banking customer quits
- Created an end-to-end solution complete with sending automated personalized email to banking customer based on feature engineering, normalization, model training, evaluating and hyperparameter tuning across 5 LLM models

### Financial Analysis & Automation with LLMs (~30 hours) - [GitHub](#)

**OCT 2024**

- Developed a FastAPI backend integrating Pinecone and LangChain, enabling similarity searches across 10,000+ stock descriptions using a 768-dimension vector index
- Optimized data processing by parallelizing tasks with 10 concurrent workers, efficiently handling ingestion for 10K+ stock tickers overcoming I/O bound latency

## Activities

**Programming Content Creator** – Built a following on Instagram and TikTok of more than 30k followers combined

**Jun 2024 - Present**

by sharing engaging content about programming and technology