Antalya, Turkey
niyousha.kh@gmail.com

Niyousha Khodashenasabadi

http://www.linkedin.com/in/niyousha-kh
https://github.com/niuthecoder

Work Experience

Backend Developer Intern   Tech Admire |Turkey |June 2024 – Sep 2024

- Developed and maintained backend services and APIs using Java and Spring Boot for web applications.
- Optimized database queries to enhance performance and efficient data storage.
- Collaborated with front-end developers to integrate server-side logic with user-facing elements.
- Assisted in debugging backend issues, improving system reliability and user experience.
- Contributed to the UniAdmire project, adding features like user registration and event management.

RPA Developer Intern   Arya.ai |Turkey | Sep 2024 – Oct 2024, Jan 2025 – Feb 2025

- Worked on developing a Large Language Model (LLM) to optimize financial management tasks, including budget management and procurement classification.
- Designed an AI-driven system to evaluate and negotiate offers via email in Turkish and English.
- Delivered results on schedule, optimizing procurement decisions based on price, delivery, and quality and presented outcomes to stakeholders.

Frontend Developer Intern   Celadon Soft | USA | Feb 2025 – April 2025

- Built an interactive Tic-Tac-Toe game using React.js, demonstrating proficiency in component-based architecture.
- Implemented modern React features like hooks and local state for dynamic game logic.
- Designed a responsive UI, improving user engagement and providing an enhanced user experience.
- Gained experience with React development best practices and frontend workflows.

AI Engineer Intern   Nventra AI Technologies |Turkey | Jan 2025 – Feb 2025

- Developed and optimized AI models for the Smart Beauty skincare platform, focusing on wrinkle detection using Detectron2, YOLO, and Mask R-CNN for object detection and segmentation.
- Improved model accuracy by applying CNNs and Transfer Learning techniques for skin condition analysis.
- Conducted data preprocessing and augmentation for a custom wrinkle detection dataset, ensuring high-quality inputs for model training.
- Contributed to the deployment of the model, enhancing the Smart Beauty platform's AI-driven capabilities.

Education and Certifications

- **Bachelor of Computer Engineering**, Antalya Bilim University, Turkey.   **2021– 2025**

Technologies, Languages and skills

- **Languages**: Java, Python, JavaScript, TypeScript, SQL, C, C++
- **Frameworks & Libraries**: Spring Boot, Node.js, Express.js, React.js, LangChain, Hugging Face, TensorFlow, PyTorch, YOLOv5, Detectron2
- **Tools**: Git, GitLab, VSCode, IntelliJ IDEA, Postman, Adobe Illustrator, Adobe Photoshop, Docker, AWS, PostgreSQL
- **Machine Learning & AI**: NLP, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Transformers, Deep Learning, Machine Learning, Robotic Process Automation (RPA)
- **Concepts**: Data Structures & Algorithms, Object-Oriented Programming, Deep Learning, Machine Learning, Robotic Process Automation (RPA)
- **Soft Skills:** Problem-Solving, Active Listening, Collaboration, Communication, Time Management, Creativity

Projects

Student assistance chatbot (Final Bachelor Project)   March 2025 – April 2025

- Developed an AI-powered chatbot to assist students with academic inquiries using Retrieval-Augmented Generation (RAG) methodology.
- Integrated LangChain, LlamaIndex, and the DeepSeek LLM to deliver context-aware and accurate responses in natural language.
- Curated and preprocessed a domain-specific CSV dataset, improving relevance and accuracy of generated answers.
- Built a clean and responsive React.js frontend to enable seamless student-chatbot interaction.
- Deployed the complete system and validated performance across various academic scenarios.

Movie Recommendation Web App   November 2024 – December2024

- Built a personalized movie recommendation system using BERT and IMDb API for semantic search, movie details, and posters.
- Developed a Spring Boot + Node.js backend with JWT-based user authentication and dynamic recommendation logic.
- Designed a React.js frontend featuring responsive UI and advanced filtering for enhanced user experience.
- Combined collaborative filtering and NLP techniques to improve recommendation accuracy.

Dormitory Management System   January 2025 – February 2025

- Created and deployed a full-featured dormitory management backend with secure REST APIs for student and room management.
- Implemented room capacity logic to track and control occupancy dynamically.
- Applied role-based access control using Spring Security to restrict admin-level operations.
- Integrated PostgreSQL via Spring Data JPA, configured entity relationships, and enabled automatic schema updates.
- Documented all APIs using Swagger UI and deployed the backend publicly using Railway.

Wrinkle Detection AI Model   February 2025 – April 2025

- Developed an AI-driven wrinkle detection system utilizing Detectron2 and YOLO for object detection and segmentation
- Improved accuracy by 15% using Convolutional Neural Networks (CNNs), Transfer Learning, and a robust data augmentation pipeline.
- Deployed the model for skincare analysis applications to enhance detection precision and reliability.