ADIL ZHAKSYLYK

SOFTWARE ENGINEER
AI & ML INFRASTRUCTURE
SCALABLE SYSTEMS

CONTACT

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📍 Astana, Kazakhstan

EDUCATION

2020 - 2022

EURASIAN NATIONAL UNIVERSITY. L.N. GUMILYOV (KAZAKHSTAN)

- Master degree in Automation and control

2014 - 2019

NAZARBAYEV UNIVERSITY (KAZAKHSTAN)

- Bachelor degree in Robotics and Mechatronics

REFERENCE

Prof. Dr. Alexander Jesser

- Director of Intelligent Cyber-Physical Systems (ICPS)
- Member of the BW-CAR Research Center III Doctoral Program
- Faculty of Engineering and Economics Heilbronn University

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LANGUAGES

- English – fluent
- Kazakh – native
- Russian – native / bilingual

PROFILE

Machine Learning Engineer with 4+ years of experience building and scaling AI solutions across research and industry. Skilled in Python, TensorFlow, PyTorch, and MLOps, with a track record of delivering reliable, production-ready AI systems. Specialized in recommendation systems, NLP, multimodal AI, and speech/signal processing. Experienced in optimizing pipelines for GPU acceleration, distributed training, and CI/CD deployment, reducing model deployment time by up to 40%. Passionate about applying AI to solve real-world problems in finance, retail, logistics, and industrial automation.

WORK EXPERIENCE

Hochschule Heilbronn (Germany)   MAY 2023 - SEP 2025

Research assistant at ICPS

- Designed and automated CI/CD pipelines for AI models (GitLab CI/CD, Docker), reducing deployment time by 30% and ensuring reproducible releases for research and industrial prototypes.
- Developed Python-based data processing and monitoring tools on Linux, improving system reliability and enabling scalable real-time AI applications.
- Optimized AI/ML workflows on embedded platforms (i.MX 95), cutting inference latency by 25% and improving resource efficiency for edge deployment.
- Collaborated with interdisciplinary teams, presenting outcomes that accelerated industry–academia partnerships in applied AI.

LLP "KMG-Security" (Kazakhstan)   2018- 2023

Project manager

- Led the development of a secure Android application, enhancing authentication and encryption across multiple OS versions.
- Integrated backend services (Java/Kotlin, REST APIs), improving response times by 20% and ensuring compatibility across Android versions.
- Delivered security-focused mobile solutions that improved operational efficiency and safeguarded enterprise data for 1,000+ internal users.

CORE SKILLS

- **AI & ML:** Recommendation systems, NLP, embeddings, optimization, multimodal AI (Scikit-learn, TensorFlow, PyTorch)
- **Speech & Signal Processing:** Noise reduction, speaker recognition, MFCC, GMM, TensorFlow Lite
- **MLOps & DevOps:** CI/CD (GitLab CI, Jenkins), MLflow, Docker, Git, model deployment & monitoring
- **Big Data & Cloud:** SQL, Spark, Databricks, GCP, Azure, AWS
- **Software Development:** Python, C#, Django, CMake, Yocto, Linux
- **Optimization:** GPU acceleration, parallel & distributed ML workflows
- **Data & Collaboration:** Feature engineering, statistical modeling, Agile/Scrum, stakeholder communication