Özgür Demirhat

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Education

Middle East Technical University — Ankara, Türkiye
M.Sc. Computer Engineering – CGPA: 3.50 — Expected Graduation: Jun 2027

- Relevant Coursework: Machine Learning, Data Mining, Big Data Analytics, Information Retrieval, Design and Analysis of Algorithms
- Publication: Ö. Demirhat, K. Karabacak, E. Gümüşkaya, P. Karagöz, "Contrastive Representation Learning for Stock Trading Classification: A TS2Vec Approach with Technical Indicators," 2026 34th Signal Processing and Communications Applications Conference (SIU), IEEE, Jul 2026. DOI: 10.1109/SIU71813.2026.11636684

Hacettepe University — Ankara, Türkiye
B.Sc. Computer Engineering – Graduated with High Honors, CGPA: 3.58 — Oct 2020 – Jun 2024

- Relevant Coursework: Machine Learning, Artificial Intelligence, Computer Vision, Image Processing, Computer Security, Software Engineering, Networks, Blockchain, Statistics
- Design Project: "Using ML Models For Medical Applications With Data Augmentation and Artificially Generated Data"

Experience

ASELSAN — Ankara, Türkiye
Software Engineer — Nov 2024 – Present

- Developed and maintained software solutions addressing communication systems, chat applications, and video streaming/processing in mission-critical systems.
- Utilized Java, C++, and React within the SST department, focusing on performance and scalability.
- Invited speaker at Bakırçay University IEEE "Yazılım Zirvesi 3," presenting on "Data Warehouses and the ETL Process: Transforming Data into Information."

Meteksan Defence — Ankara, Türkiye
Candidate Software Engineer — Apr 2024 – Jul 2024

- Contributed to government radar software projects within the Radar Software Design Department utilizing Java, Maven, Spring Boot, Java Threads, Swing, and Observables for scalable system development

Ibtech (QNB Finansbank) — Istanbul, Türkiye
Software Engineering Intern — Feb 2024 – Mar 2024

- Designed and implemented DWH solutions using ODI, SQL, DBeaver, and Python in an Agile team
- Built a Python tool to remove obsolete SQL columns/tables, presented to executive management

Intertech — Istanbul, Türkiye
Software Engineering Intern — Jul 2023 – Sep 2023

- Developed an Android application for online customer onboarding in an Agile Scrum environment
- Built IC detection and data extraction system using YOLOv8 and image processing techniques
- Deployed Flask services on Azure Web App, storing data in Azure MySQL databases

Garanti BBVA Technology — Istanbul, Türkiye
Software Engineering Intern — Jul 2022 – Sep 2022

- Contributed to DWH team (Prisma) in a Scrum Agile setting, developing solutions for reporting and analytics
- Participated in a transformation project to improve performance by redesigning legacy data tables
- Gained experience with SQL, ODI, Big Data tools, and enterprise DWH infrastructure

Skills & Interests

Technical: Java (Threads, Swing, Spring Boot, Maven), Python (YOLO, Image Processing, GAN, Flask), C++, React, Android Development, SQL, Oracle Data Integrator (ODI), Data Warehouses, Algorithms and Data Structures, Git, SVN, Docker, Kubernetes, Microsoft Azure
Language: Turkish (Native), English (C1)
Interests: Data Warehouse and Management, Machine Learning, Image Processing, Computer Vision, Video Streaming, Computer Security, Cryptography and Privacy, Cost-Efficient LLMs