Kadir Ibrahim Tikil

Software Developer

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📅 23rd June 1997 GitHub in LinkedIn 🔗 www.kadir-tkl.com

🪪 Profile

Passionate about a wide range of technologies, I thrive on solving complex problems, breaking them down into manageable components, and crafting innovative solutions. Always eager to explore new ideas, I aim to deliver meaningful value in a dynamic, professional environment while continuously refining my expertise.

Currently pursuing an **M.Sc. at RWTH Aachen part-time**, I specialize in Machine Learning and Software Engineering. However, my true focus lies in **gaining hands-on industry experience**—I am far more eager to work, build real-world solutions, and collaborate with like-minded professionals than to remain in academia.

I transitioned from Civil Engineering to Computer Science out of a deep passion for the field and am excited to apply my skills in practical, impactful projects. My goal is to contribute, learn from real-world challenges, and push the limits of technological innovation.

🎓 Education

Master Of Science – Computer Science   2024 – present
RWTH Aachen: Machine Learning / Software Engineering   Aachen, Germany
Studying part-time

Bachelor Of Science – Computer Science   2020 – 2024
Fachhochschule Aachen: IT-Security / Software Engineering Aachen, Germany
Thesis in: Applications of functional programming languages
- I explored specific use cases where functional programming
  techniques can be beneficial or are already in use. My
  analysis included functionally intensive projects and
  systems such as AKKA and LiChess. Grade: 1.3
Overall grade: 2.1

🌐 Languages

German — Native • **Turkish** — Native • **English** — Fluent

🧠 Skills

Frontend: React, Angular, MaterialUI, Vite, HTML, CSS, Tailwind, Zustand

Backend: Gin, Gorilla Websockets, net/http, Node.js, Express.js, Laravel

OS: Linux (Ubuntu), Windows, RasberryOS, Mac

UI/UX Design: Figma, Miro

Database: MySQL, PostgreSQL, SQLite

DevOps: Docker, Portainer, Hetzner

Programming Languages: Golang (Go), PHP, Scala, C#, Java, C/C++, TypeScript, JavaScript, Python, Bash

Software Architectures: Client-Server, Publisher-Subscriber, Serverside oritented Architecture, Event-Driven, Serverless, Layered Architecture

API Protocols: REST API, HTTP/HTTPS, Websockets, FTP/SFTP

Authentification: JWT, OAUTH2.0, Password-based, Token-based, Session-based

Machine Learning: Neural Networks, Recurrent Neural Networks (RNNs), Convolutional Neural Networks (CNNs), Feature Extraction, PyTorch, Pandas, Numpy, SciKit-Learn, Seaborn, Matplotlib

Testing: Testdriven developement, JUnit, Functional Testing

Management and Documentation: GitHub Projects

Version Control: Git, GitLab, GitHub

API Testing and Documentation: Postman, Markdown, CVE, CVSS, Sonarqube

Development Environments: VSCode, VisualStudio, Vim, NVim, Nano, JupyterNotebooks, Goland, IntelliJ

</> Familiar Technologies

Frontend: Vue, Primevue, Vuetify, Bootstrap, CSS-Modules, Radix

Backend: Symfony, Django

DevOps: Kubernetes, Netlify, Cloudflare

🔨 Side Projects

Functional JSON Parser ⬀   2024

Status: *Finished*

Role:
Fullstack Developer

Description: Developed as part of my bachelor's thesis, this
project was implemented exclusively using functional
programming techniques, including tail recursion, pattern
matching, and higher-order functions.

Techstack: Scala & sbt

Cluster Portainer Monitor ⬀   2024 – 2025

Status: *In development*

Role: Fullstack-Developer

Description: A monitor capable of orchestrating containers on
a machine, provided the user has the necessary authentication
and authorization. It supports seamless switching between
machines and provides a comprehensive view of all containers
within a cluster, including its worker nodes. Developed as an
interface for my own cluster.

Techstack: React, Golang, Gorilla Websockets, net/http,
testing, Docker and Kubernetes.

RAGDOC ⬀   2025

Status: *In development*

Role: Fullstack Developer

Description: Built with LangChain-Python, Vue, and Go, it
enables querying of documents by chunking them, vectorizing
both the document chunks and the query, and matching them. A
local LLM then processes the result to provide human-readable
answers.

Techstack: Python, Go, Vue, TypeScript, LangChain, net/http,
Gorilla Websockets, PrimeVue

Website ⬀   2025

Status: *In development*

Role: Fullstack Developer

Description: A personal website designed to enhance my online
presence and provide a convenient means of contact.

Techstack: React, TypeScript, Material UI, Hetzner