



Eren Tuna Açıkbaş

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ABOUT ME

I am a dedicated **Software Engineer** with over 3 years of experience, specializing in **Golang** development, **microservices architecture**, and **Kubernetes**. My expertise focuses on designing and deploying scalable, AI-driven solutions in cloud-native environments, particularly in financial and enterprise applications. I have a strong background in building microservices-based systems and have been actively involved in **authentication** and **authorization** topics, ensuring secure and efficient access control.

With practical experience in technologies like **Kafka**, **Redis**, **PostgreSQL**, and **Oracle**, I am skilled at developing high-performance, data-intensive applications. I am also experienced in DevOps practices, utilizing **Kubernetes** for seamless deployment and scaling. My goal is to leverage my software development skills to build innovative, reliable solutions that drive business success.

WORK EXPERIENCE

Team Leader | Software Engineer

Implementation Partners GmbH [07/2024 – Current]

City: Frankfurt | **Country:** Germany | **Business or sector:** Financial and insurance activities

- Currently leading the development of a **highly scalable, high-performance cloud-native banking product**, utilizing **Golang**, **microservices architecture**, and **Kubernetes** to build resilient and efficient systems that meet the evolving needs of the financial industry.
- Actively overseeing the implementation of **secure authentication and authorization mechanisms**, ensuring robust protection of user data and adherence to industry compliance standards. Spearheading the seamless integration of **API gateways** to facilitate secure and efficient communication between services.
- Driving **agile processes**, including sprint planning, retrospectives, and continuous feedback loops to maintain project momentum and foster team collaboration. Regularly mentoring and guiding a team of 10+ developers, providing technical expertise and ensuring alignment with project goals and deadlines.
- Placing significant emphasis on **manual and automated testing**, ensuring the system's functionality and performance are thoroughly verified. Collaborating closely with the QA team to define testing strategies, build automated test suites, and perform manual testing on key features to guarantee reliability and reduce potential defects.

Team Leader | Software Developer

Implementation Partners GmbH [02/02/2024 – 15/07/2024]

City: Frankfurt | **Country:** Germany | **Business or sector:** Financial and insurance activities

- Led the **hands-on development** of core components for a **cloud-native banking product** using **Golang** and **microservices architecture**, ensuring that the system was designed for scalability and high performance.
- Focused on building and optimizing **data-intensive applications** that handled large-scale transactions and met strict performance requirements for the financial industry.
- Collaborated closely with **cross-functional teams**, including architects, DevOps engineers, and data scientists, to implement features with a high degree of technical complexity.
- Provided **technical mentorship** to junior developers, helping them improve their code quality and efficiency through code reviews and one-on-one sessions.

- Took ownership of key aspects of the **DevOps pipeline**, including continuous integration and delivery, to automate deployment processes and reduce downtime.
- Worked extensively on **refining the product architecture**, focusing on reliability, performance optimizations, and ensuring smooth inter-service communication.
- Gained deep technical experience with **API gateway integrations**, focusing on ensuring secure and efficient interaction between services, while maintaining performance and security standards.

Software Developer

Implementation Partners GmbH [06/2023 – 02/2024]

City: Ankara | Country: Türkiye | Website: <https://im-par.de/> | Name of unit or department: Product Development - Business or sector: Financial and insurance activities

- Played a key role in the initial development of a **cloud-native banking solution**, with a strong focus on **Golang** and **AI integration** to deliver efficient, scalable features tailored to the financial industry.
- Contributed to the **foundational architecture**, working extensively on **microservices** and **API gateways** to ensure the system met strict **high-performance** and **scalability** requirements.
- Significantly improved my expertise in **Go** and **Kubernetes**, leveraging these technologies to develop and deploy microservices seamlessly within a containerized environment, ensuring the system's resilience and adaptability.
- Collaborated with **global teams**, utilizing **agile practices** to consistently meet project milestones and align technical development with overarching business goals.
- Engaged in continuous learning and application of **Kubernetes orchestration**, enhancing the deployment pipeline and automating key processes to ensure efficient resource management and rapid scaling.

Software developer

Valantic GmbH [17/11/2021 – 02/2023]

City: Frankfurt | Country: Germany | Website: <https://www.valantic.com/> | Name of unit or department: Financial Services - Business or sector: Financial and insurance activities

- Collaborated with **international customers** to deliver **tailored software solutions** that addressed their specific business needs and objectives.
- Utilized **analytical and problem-solving skills** to design logical workflows and develop **efficient, scalable software** aligned with operational goals.
- Adapted to **evolving project requirements**, effectively prioritizing tasks to meet deadlines and deliver high-quality results within an **agile development environment**.
- Worked closely with **cross-functional teams**, including **software architects** and **QA testers**, to ensure the delivery of **robust, high-performance applications**.
- Optimized **SQL databases** by refining queries and structures to maintain **data integrity** and meet demanding performance requirements, enabling systems to handle **heavy transactional loads** efficiently.

Mobile Application Developer

Bionluk [01/07/2019 – 15/11/2021]

City: Ankara | Country: Türkiye | Business or sector: Information and communication

- Independently led the **design and development** of mobile applications as a **freelance software developer**, with a specialization in **Flutter**.
- Collaborated closely with clients to understand their **unique requirements** and provided expert advice on **maintaining and improving** their mobile applications.
- Designed and developed **customized mobile applications**, tailored to meet each client's specific needs, ensuring a **seamless and engaging user experience**.
- Delivered **cutting-edge and impactful solutions** using **Flutter**, helping clients enhance their mobile offerings and achieve their **business objectives**.

Sales Consultant

Le Meridien Bodrum Beach Resort [01/06/2022 – 30/08/2022]

City: Bodrum | Country: Türkiye | Name of unit or department: Sales - Business or sector: Accommodation and food service activities

- Managed the **storage, retrieval, and organization** of products within the store, ensuring efficient inventory control.
- Maintained regular relations with **international customers**, providing a high level of **customer service** and ensuring client satisfaction.
- Oversaw **product inventory management**, ensuring accuracy, organization, and the timely **replenishment of stock**.
- Handled **customer inquiries, concerns, and complaints** professionally, resolving issues efficiently and ensuring the satisfaction of all parties involved.

EDUCATION AND TRAINING

Petroleum and Natural Gas Engineering

Middle East Technical University [09/2019 – 07/2024]

City: Ankara | Country: Türkiye | Website: <https://www.metu.edu.tr/> | Field(s) of study: Engineering, manufacturing and construction

Computer Programming

İstanbul University [16/09/2024 – Current]

City: İstanbul | Country: Türkiye | Website: <https://www.istanbul.edu.tr/> | Field(s) of study: Information and Communication Technologies: • Software and applications development and analysis

CERTIFICATIONS

[11/2023 – 11/2023]

Machine Learning with Python

Issued by: IBM

Credential ID: A78DMUBBG4NY

Skills Acquired: Machine Learning, Python, Data Classification, Unsupervised Learning

Link: <https://www.coursera.org/account/accomplishments/verify/A78DMUBBG4NY>

[08/2023 – 08/2023]

Microsoft Learn AI Skills Challenge

Issues by: Microsoft

Skills: Microsoft Azure Machine Learning · Classification · Clustering · Linear Regression

[06/2023 – 06/2023]

Databases and SQL for Data Science with Python

Issued by: IBM

Credential ID: RXPRHYGYT9X8

Skills: SQL · Cloud Databases · RDBMS · Data Science · Python

Link: <https://www.coursera.org/account/accomplishments/certificate/RXPRHYGYT9X8>

[12/2023 – 12/2023]

Concurrency in Go

Issues by: University of California, Irvine Division of Continuing Education

Credential ID: 43YXD6Y3SRQH

Skills: Go (Programming Language) · Concurrency · Concurrent Programming

Link: <https://www.coursera.org/account/accomplishments/verify/43YXD6Y3SRQH>

PROJECTS

[04/2024 – 07/2024]

Monte Carlo Reservoir Simulation

- Developed a simulation tool using PyQt6 to visualize Monte Carlo reservoir simulations in Python as part of my final year project.
- Focused on creating an interactive, user-friendly interface to estimate hydrocarbon reservoir volumes through probabilistic methods.
- Accounted for uncertainties in reservoir parameters, such as porosity, saturation, and permeability, to generate a distribution of possible reservoir volumes.

Link: <https://github.com/erenacikbas/monte-carlo-simulation>

Library Management System

- Developed a system using **Django** and **Docker**, designed to streamline the **management of library resources**.
- Provided an intuitive and efficient solution for handling tasks such as **book cataloging, borrowing, and returning**.
- Built the **frontend** using **HTML** and **CSS**, ensuring a **user-friendly interface** for both library staff and users.
- Leveraged **Docker** for containerization, enabling **easy deployment** and **scalability**, making the system robust and adaptable to various environments.

HearMe

- Developed a **mobile application** aimed at supporting **victims of domestic violence**, enabling them to **contact authorized personnel** through **audio recordings**.
- Aligned with the **United Nations' Sustainable Development Goals (SDGs)**, particularly **Goal 5: Gender Equality** and **Goal 16: Peace, Justice, and Strong Institutions**, ensuring **timely support** and **safety** for those in need.
- Utilized **Firebase** for **secure data management** and **real-time communication**, ensuring reliable and efficient system performance.
- Created a **scalable, user-friendly interface** using **Flutter**, delivering a seamless user experience.
- Collaborated with **industry experts**, contributing to global efforts toward **gender equality** and building **inclusive societies**.

Glossy Words

- Developed a **word memorization mobile application** using **Flutter**, designed with a **user-friendly interface** to help users learn and practice vocabulary through **interactive flashcards**.
- Incorporated features such as **spaced repetition** and **progress tracking** to enhance the learning process and optimize user retention.
- Gained **real-world experience** in **mobile application development**, applying and refining my skills with Flutter.
- This project laid the **foundation for future advanced projects**, serving as my first major endeavor using Flutter.

ONGOING PUBLICATIONS

[08/2024 – Current]

Advancing Crayfish Gender Prediction: A Comparative Study of Deep Learning and Canonical Machine Learning Techniques

- This project focuses on predicting the gender of crayfish using various machine learning models, including Kolmogorov-Arnold Networks (KAN), Artificial Neural Networks (ANN), K-Nearest Neighbors (KNN), Support Vector Machines (SVM), Random Forest (RFC), and Logistic Regression.
- Data collected includes weight, size, and detailed morphological characteristics, along with at least five photographs of each crayfish to enrich the dataset.
- The KAN model was adapted to capture complex patterns in the data, while other models like ANN, KNN, and SVM were used to recognize patterns, assess similarity, and create classification boundaries.
- Each model is evaluated for accuracy, sensitivity, and specificity to determine the best approach for gender prediction, contributing to ecological research and the management of crayfish populations.

[06/2024 – Current]

Sex estimation from long bones: Canoncial Machine Learning Techniques And Deep Learning Approach

- Focuses on sex estimation in forensic anthropology using long bones (radius, humerus, femur, tibia) as alternatives when sexually dimorphic bones are missing or degraded.
- Collected measurements from 1,681 individuals to build machine learning models for sex estimation.
- Employed advanced classifiers, including Kolmogorov-Arnold Networks (KAN) and Artificial Neural Networks (ANN), to create accurate classification models.
- Achieved accuracy rates between 90% and 95% through rigorous cross-validation.
- Demonstrates the potential of machine learning to enhance sex estimation in forensic contexts, offering robust models applicable across populations

LANGUAGE SKILLS

Mother tongue(s): Turkish

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access

Deployment-Microservice-Development

Back-end (Flask, Django) / Programming languages: GoLang, C++, Php / Devops: Docker, Jenkins / Microservices with Nodejs / Version Control System (Git) / • Application programming and Artificial Intelligence (Machine Learning/ Neural Network) / DevOps: AWS, Git.

Machine Learning,Deep Learning

Machine Learning, Deep Learning / Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation / Platform : AWS Cloud / Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) / Kubernetes, Docker-Swarm / Pytorch,Tensorflow

HOBBIES AND INTERESTS

Tennis

Swimming

DRIVING LICENCE

Driving Licence: A1 27/12/2019 – 27/12/2029

Driving Licence: B1 27/12/2019 – 27/12/2029

Driving Licence: B 27/12/2019 – 27/12/2029

REFERENCES

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