

Tuba ÇINAR

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♀ Female

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ABOUT ME

Backend-focused Computer Engineer experienced in Java, Spring Boot, Hibernate, and REST API development. Strong background in Docker, GitLab CI/CD, Kubernetes, and secure authentication. Delivered multiple AI-driven projects including CNN-based fire detection and LLM-supported scenario generation. Fast learner, adaptable, and eager to contribute to scalable backend systems and DevOps workflows.

WORK EXPERIENCE

- | | |
|---|---|
| 01/10/2024 –
30/06/2025
Ankara, Türkiye | Capstone Project
<i>Turkish Aerospace Industries (TAI)</i> <ul style="list-style-type: none">Fine-tuned transformer-based LLMs (Gemma, DeepSeek) using structured STEEP trend datasets.Developed backend services using Spring Boot and designed relational models with PostgreSQL.Implemented role-based user management for secure access and workflow separation.Integrated AI models into the system via a Flask API, enabling seamless model-backend communication.Supported domain experts in generating and evaluating strategic foresight scenarios.Delivered as part of a TÜBİTAK 2209-B industry-oriented project. |
| 26/06/2024 –
24/07/2024
Ankara, Türkiye | DevOps Intern
<i>Rocketsan</i> <ul style="list-style-type: none">Developed and maintained GitLab CI/CD pipelines for internal projects.Built and optimized Docker images for consistent deployments.Worked with Kubernetes for container orchestration and scaling. |
| 24/07/2023 –
18/08/2023
Ankara, Türkiye | Software Developer Intern
<i>TÜBİTAK Bilgem YTE</i> <ul style="list-style-type: none">Built backend modules using Java, Spring Framework, Hibernate.Designed relational database schemas using PostgreSQL.Implemented role-based authentication with Spring Security.Containerized the application using Docker to streamline deployment. |

EDUCATION AND TRAINING

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| 09/10/2021 –
25/06/2025
Eskişehir, Türkiye | Bachelor Degree
<i>Eskişehir Technical University Computer Engineering Faculty</i> <ul style="list-style-type: none">Final grade 3.13/4Thesis: Artificial Intelligence-Assisted Foresight and Scenario Development Tool |
| 15/09/2013 –
17/06/2017
Manisa, Türkiye | High School
<i>Soma Anadolu Öğretmen Highschool</i> |

JOB RELATED SKILLS

Languages: Java, Python, SQL

DevOps: Docker, GitLab CI/CD, Kubernetes

AI/ML: PyTorch, TensorFlow/Keras, Transformers
(Hugging Face), CNN, NLP

Backend: Spring Boot, Hibernate, Spring Security,
REST APIs

Databases: PostgreSQL, MySQL

Tools: Git, Postman, IntelliJ IDEA

LANGUAGE SKILLS

English

C1 Reading, C1 Writing, B2

Speaking, B2 Listening

NETWORKS AND MEMBERSHIPS

Eskişehir

ESTU Software Club

Technical Team Member

Eskişehir

GDSC

Technical Team Leader

PROJECTS

FIRE DETECTION SYSTEM

- Built a Convolutional Neural Network model to classify and detect fire from images.
- Achieved improved detection accuracy using optimized preprocessing and deep learning techniques.

PERSONAL INFORMATION SYSTEM

- Developed a secure information management system with Spring Boot & Hibernate.
- Implemented Spring Security role-based authorization.
- Deployed using Docker for SQL integration.

TRAFFIC SAFETY DESCRIPTION AND ANALYSIS

- Processed large-scale traffic safety datasets using data cleaning, segmentation, and temporal analysis techniques.
- Applied statistical modeling and data mining methods to identify key accident risk factors and hazard patterns.
- Used Python (pandas, numpy) for data preprocessing and feature extraction.
- Implemented NLP methods to generate incident summaries and extract insights from unstructured reports.
- Collaborated with team members to support data-driven safety improvement decisions.

CI/CD INTEGRATION with GITLAB, DOCKER, AND KUBERNETES

- Built automated CI/CD pipelines for Windows and GitLab runners.
- Created Docker images and deployed services on Kubernetes clusters.