

YİĞİT GİRİT

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SUMMARY

Software Engineering student specializing in abstracting complex problems into scalable systems and translating dense data flows into clean APIs and highly responsive user interfaces. Experienced in utilizing modern architectural patterns to deliver high-quality solutions. My goal is to build reliable, data-intensive applications by ensuring flawless data access and system integrity through robust architecture.

EDUCATION

Karadeniz Technical University (KTU)

Bachelor of Science in Software Engineering

Trabzon, Turkey

Expected Graduation: 2028

- **Status:** 2nd Year Student
- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Advanced Web Applications, Object-Oriented Programming, Software Requirements Engineering.

SKILLS

- **Programming Languages:** Java, TypeScript, JavaScript, SQL, HTML/CSS
- **Backend Technologies:** Spring Boot, Spring Security, PostgreSQL, RESTful APIs
- **Frontend Technologies:** React, Next.js, Tailwind CSS
- **Architecture & Paradigms:** OOP, Domain-Driven Design, MVC, SOLID Principles
- **Tools & Methodologies:** Docker, Git, Maven, Postman, Agile/Scrum
- **Languages:** Turkish (Native), English (Upper-Intermediate)

FEATURED PROJECTS

Library Management System

Java, Spring Boot, PostgreSQL, TypeScript, Next.js, Docker

Full-stack library management system for inventory tracking and catalog management

- Developed and standardized 40+ REST API endpoints with consistent response structures and centralized error handling
- Implemented JWT-based authentication with automatic token renewal to ensure uninterrupted user sessions
- Prevented data inconsistencies in concurrent operations using Optimistic Locking and Pessimistic Locking for critical transactions
- Improved query performance and ensured real-time data consistency using PostgreSQL triggers
- Applied Strategy pattern for dynamic fine calculation (standard vs progressive penalties) based on user history
- Developed an asynchronous notification system supporting Email and SMS based on user preferences
- Improved initial page load performance and SEO using server-side rendering (SSR), particularly for catalog pages
- Built an admin dashboard for analytics, system monitoring, inventory management, and loan processing
- Automated CI/CD pipelines using GitHub Actions and Docker for build and deployment

INTERESTS & RESEARCH

- **Computational Linguistics:** Algorithmically exploring lexical derivation and syntax boundaries within generative morphological engines.
- **Clean UI:** Simple, high-contrast but unique design systems that can handle complex situations.
- **Emerging Technologies:** Engaged with the progress of Machine Learning and Large Language Models, and exploring their implications for software development.
- **Etymology:** Fascinated by the quantitative analysis of etymology, including the digitization of historical linguistic data and the creation of searchable databases.