

Ali Zekai Deveci

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Profile

Dedicated senior-year Software Engineering student at Mugla Sitki Kocman University, currently participating in the Erasmus exchange program at West Pomeranian University of Technology in Szczecin, Poland. Passionate about technology, backend engineering, and system design, with a strong drive for continuous learning and academic excellence. Highly disciplined, motivated, and eager to contribute to impactful software engineering projects.

Education

Mugla Sitki Kocman University Sep 2022 – Present
Bachelor of Science in Software Engineering *Mugla, Turkey*

GPA: 3.50

West Pomeranian University of Technology in Szczecin Sep 2025 – Present
Bachelor of Science in Computer Science and Information Technologies *Szczecin, Poland*

Technical Skills

- **Programming Languages:** Go, Java, Python, C, Dart/Flutter, HTML, CSS
- **Backend Development:** Fiber (Go), Spring Boot, Flask, Django
- **Cloud DevOps:** AWS (EC2, S3), Docker, Linux, CI/CD
- **Cyber Systems:** Networking, Cybersecurity fundamentals, Linux
- **Tools Databases:** Git, Docker, Kubernetes, MySQL, PostgreSQL, Redis, JWT, LXC, nginx, Postman, SOAPUI, Mininet

Experience

Software Development Intern
Mono Bilisim

July 2024 – Aug 2024
Istanbul, Turkey

- Assisted in backend development tasks, including debugging, optimization, and testing workflows.
- Gained practical experience in a structured software development environment, enhancing skills applicable to both academic studies and future career.

Go Backend Developer
Virtus RnD

Feb 2025 – Present
Remote

- Leading a 6-person backend development team, coordinating tasks, code reviews, and project timelines.
- Developing backend systems, infrastructures, and APIs optimized for performance and scalability.
- Utilizing Go, cloud-native patterns, and modern backend development practices to deliver real-world solutions.

Extra-Curricular Activities

- **All Different All the Same Erasmus+, Hungary (2019):** Participated in international student activities, gaining early cross-cultural experience.
- **Mugla Blockchain Student Community (2023–2025):** Board Member providing workshops and organizing events on blockchain technologies.
- **Mugla Cinema Student Community (2024–2025):** Board Member responsible for organizing community-based cinema activities.
- **Erasmus+, Poland (2025):** Currently participating as an ERASMUS student at West Pomeranian University of Technology, in the Department of Computer Science and Information Technologies. Studying as part of an exchange from the Software Engineering program at my home university.

Languages

- Turkish (Native)
- English (C1)

References

- Oguz Can Sapmaz — EMnify +49 178 206 9304
- Fatma Onay Kocoglu — Istanbul University +90 553 484 4881

Projects

- **TUTOR AI — AI-Powered Educational Platform**
 - Developed REST API backend with AI integration for document summarization, quiz generation, and Q&A chat functionality.
 - Implemented JWT-based authentication with Redis session management and Google OAuth integration.
 - Built a file upload system supporting different file format processing and YouTube video content extraction with context generation.
 - Designed progress tracking system with XP, levels, and multi-tier leaderboards (friends, school, global).
 - Integrated Python-based AI services for document analysis, summarization, and quiz evaluation workflows.
 - **Tech Stack:** Go, Fiber, PostgreSQL, Redis, Docker, React, Tailwind CSS, JWT, Google OAuth API, REST API
- **SpeedScroll — Time-Based Navigation App**
 - Designed route-calculation algorithms for shortest path and time-based optimization.
 - Developed backend services integrating external navigation APIs.
 - **Tech Stack:** Python, Flask, Dart/Flutter, External Navigation APIs, Algorithm Design
- **ExercEase — Injury Recovery Mobile App**
 - Developed RESTful backend API using Go and Fiber framework for injury tracking and personalized recovery progress management.
 - Implemented PostgreSQL database with GORM ORM for data persistence, and Redis for session management and token caching.
 - Integrated Firebase Authentication for Google Sign-In and JWT-based authentication system for secure user sessions.
 - Configured external API integration for exercise GIF delivery and storage.
 - **Tech Stack:** Go (Golang), Fiber Framework, PostgreSQL, Redis, Firebase Authentication, JWT, Flutter/Dart
- **CardApp — Business Card Management Platform**
 - Architected RESTful API backend with JWT authentication and Redis-based session management supporting multi-device access.
 - Implemented business card CRUD operations with favorites system, view tracking, and user statistics aggregation.
 - Developed secure authentication flow with email verification, password reset, and Google OAuth integration.
 - Designed session management system with automatic cleanup, token refresh mechanisms, and device-based access control.
 - **Tech Stack:** Go, Fiber, PostgreSQL, GORM, Redis, JWT, Email Services, Rate Limiting

- **SDN-Mininet DASH — Intelligent Video Streaming Platform**

- Architected SDN-based load balancing system with Ryu controller and Mininet, implementing dynamic server discovery and multi-algorithm traffic distribution (Round Robin, Least Connections, Weighted).
- Developed host-based load balancer service with HTTP proxy capabilities, health monitoring, automatic failover, and session persistence for consistent video streaming experiences.
- Implemented QoS management system with priority-based traffic classification, bandwidth allocation, and DSCP marking for real-time video streaming optimization.
- Designed path optimization module using NetworkX for topology discovery, shortest path calculation, and dynamic flow rule installation across multi-switch topologies.
- Built RESTful API backend and web dashboard for real-time network monitoring, load balancer statistics, and topology visualization with interactive controls.
- Integrated DASH (Dynamic Adaptive Streaming over HTTP) video streaming with adaptive quality selection, supporting multiple bitrate profiles and seamless quality transitions.
- **Tech Stack:** Python, Ryu SDN Controller, Mininet, OpenFlow, NetworkX, Flask, JavaScript, HTML/CSS, YAML, Open vSwitch