

Fehmi Can Ay

Beşiktaş, Istanbul, Turkey • fehmicanay07@gmail.com • +90 532 736 4777 • [linkedin](#) • [divopartners](#) • [konserebilet](#)

Full-stack software engineer with 3+ years of experience designing and shipping production systems end-to-end. Architected and built two SaaS products from scratch — a multi-tenant e-commerce platform and a nationwide event aggregator — owning the full stack from frontend to backend, infrastructure, and CI/CD. Strong grasp of software architecture and scalable system design, with hands-on expertise in Next.js, NestJS, TypeScript, MongoDB, OAuth/JWT authentication, third-party API integrations, and self-hosted deployments. Effective at both leveraging AI tools to accelerate development and building AI-powered features into production products.

Professional Experience

Full Stack Developer

Divo Partners (e-commerce SaaS), Istanbul, Turkey

Oct 2025 – May 2026

- Built a **full-stack e-commerce** platform using **Supabase**, **Next.js** and **NestJS**, supporting 8+ brands with seller analytics and ad management.
- Developed **RESTful APIs** with authentication and role-based access control.
- Developed a custom **e-commerce AI assistant**, automating seller insights and operational workflows.
- Built analytics dashboards for 8+ active brands, consolidating seller performance, ad spend, and revenue into a unified view.
- Delivered end-to-end business tools: logo editor, campaign management, and seller onboarding.

Full Stack Developer

REPKON (Defense Industry), Istanbul, Turkey

Oct 2022 – Oct 2025

- Built and containerized a complete **ReactJS-based UI** using **Docker**, including packaging and deployment.
- Designed backend services with **Node.js** and **Express**, implementing **RESTful APIs** and integrating **WebSocket** and **ZeroMQ** for real-time communication.
- Developed backend modules in both **JavaScript** and **C/C++** using **Node.js N-API** for native performance-critical extensions.
- Owned the full development lifecycle across a 3-year engagement — from UI design and backend architecture to containerized deployment in a production defense environment.

Undergraduate Student Manager

ADVANCED SYSTEM INNOVATION LABORATORY (YTU), Istanbul, Turkey

Sep 2021 – Jun 2022

- Involved in EU-funded projects, focusing on software and interface development, while also contributing to project coordination and cross-team collaboration.

Co-Founder

NF ROBOTICS, Istanbul, Turkey

Nov 2019 – May 2022

- Took part in software development for industrial robotics, working extensively and led a TUBITAK-supported project by founding a company within a tech development zone.

Intern Engineer
ASIL Lab (YTU) • EFES Marine • ADOPE
2019 – 2021

Education

ISTANBUL TECHNICAL UNIVERSITY, Istanbul, Turkey
Jul 2022 – Mar 2026

Master's Degree in Mechatronics Engineering (Thesis: Integration of Modern Software Tools into Programming and Development Approaches Used in Industrial Control Applications)

YILDIZ TECHNICAL UNIVERSITY, Istanbul, Turkey
Sep 2018 – Sep 2022

Bachelor of Mechatronics Engineering (English)

VILNIUS GEDIMINAS TECHNICAL UNIVERSITY, Vilnius, Lithuania
2020 Spring Semester

Bachelor of Mechatronics Engineering (English)

Projects

Konserebilet

An aggregator that scrapes and consolidates event tickets from 4 sources (Biletix, Biletinial, Bubilet, Passo) into a single searchable platform across Turkey.

Tech Stack:

- **Frontend:** Next.js 15, TypeScript, Tailwind CSS, next-intl
- **Backend:** NestJS, MongoDB
- **Auth:** Google OAuth + JWT (refresh token rotation)
- **Integrations:** Spotify Web API (artist data/embeds), Wikipedia (city/artist imagery)
- **Scraper:** Node.js + PM2 cron jobs (multi-source data collection)
- **Infrastructure:** Self-hosted VPS, Coolify (CI/CD), Cloudflare (DNS/CDN)

Publications

- Ay, F. C., Bilici, N., Varol, R., Yilmaz, A., Kirabali, U. G., Yilmaz, A., & Uvet, H. (2022). Study on the Concept and Development of a Mobile Incubator. arXiv preprint arXiv:2208.09697.
- Ay, F. C., Kılınç, B., Ercan, T. E., Kağızman, A., & Sezer, V. (2024, October). Design, Implementation, and Control of a Novel Automated Manual Transmission (AMT) System for Manual Transmission Bicycles. In *2024 Innovations in Intelligent Systems and Applications Conference (ASYU)* (pp. 1-6). IEEE.
- Kağızman, A., Ay, F. C., Kılınç, B., Ercan, T. E., & Sezer, V. Innovative Automated Manual Transmission (AMT) System for Bcycles: Design, Implementation and Control. *Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji*, 1-1.

Awards

- Awarded the Second Prize in "Machinery Manufacturing and Automotive" in the 2022 TUBITAK-2242 University Students Research Project Competitions, achieved with the Smart Mobile Incubator.
- Awarded the Second Prize in "Machinery Manufacturing and Automotive" in the 2021 TUBITAK-2242 University Students Research Project Competitions, achieved with the Programmable Metal Surface Cleaning Robot.
- Within the scope of TUBITAK-2209B, the "High Precision 4-Axis Optical Element Manipulator" project was entitled to be supported.
- Awarded Best Paper - Third Place at ASYU 2024 for the paper *"Design, Implementation, and Control of a Novel Automated Manual Transmission (AMT) System for Manual Transmission Bicycles."*