

MEHMET YILDIZ

Full Stack Developer

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Summary

Full Stack Developer delivering reliable, scalable, and user-focused applications. Combines strong technical expertise in modern web stacks with a product mindset, ensuring performant solutions that align with customer needs and business goals. Strong foundations in computer science, web architecture, and project management skills.

Core stack: Next.js, TypeScript/Node.js, Python/FastAPI, Firebase/MongoDB, Redis, Nginx, Docker, RESTful & GraphQL APIs, Authentication (NextAuth, Firebase), Cloud deployment (Google Cloud Run)

Experience

Software Engineer

Jan 2025 – Present

Fratres Technology – delivers cutting-edge software and strategic digital marketing solutions

Ankara, Türkiye

- Provided project-based software engineering services to external clients on behalf of Fratres Technology.
- **On-Chain Analytics Platform (wavesonchain.com)**
- Architected and delivered the WavesOnChain platform with a modern frontend (Next.js, TypeScript, Tailwind CSS, shadcn/ui, Highcharts) and multiple backend services.
- Built and maintained data pipelines in Python (Flask + MongoDB), and independently developed a new FastAPI backend with MongoDB (Atlas + Docker). Deployed across Google Cloud Run and VPS with Redis caching/invalidation, Nginx reverse proxy, and SlowAPI rate limiting ensuring scalable, low latency, and reliable analytics.
- Developed an admin panel with Firebase Authentication and FastAPI validation, enabling secure access control, real-time metric monitoring, and action log tracking.
- Added background task processing (user notification emails, cache refreshes, metric data updates) and structured logging to improve responsiveness, observability, and overall user experience.
- Integrated Google Analytics, metadata/SEO settings, and feature flags to track user behavior, enhance discoverability, and enable safe, incremental feature rollouts.
- **Refactor & Performance Enhancements (dasdas.com.tr)**
- Applied project management skills in a 3-person Agile team to modernize an existing Next.js/Firebase application, refactoring the admin panel, improving API performance, and optimizing image delivery/SEO. These improvements significantly increased performance and made the admin panel more usable for our clients, strengthening both user satisfaction and business value.

Full Stack Developer

Sep 2023 – Nov 2024

solarVis - a start-up aiming for sustainable future with Solar Power Plant solutions

Ankara, Türkiye

- Collaborated on building a SaaS web application platform for solar power plant solutions as part of a cross-functional team of 10+ people, using Next.js, TypeScript, Babylon.js, FastAPI, and MongoDB, while applying Agile/Scrum to adapt quickly to client feedback and deliver business value.
- Led the design and development of a 3D Design & Simulation Tool with Babylon.js, implementing core algorithms, architectural patterns, and real-time rendering workflows that enabled accurate solar panel installation simulations tailored to customer requirements.
- Built reusable, interactive UI components (dynamic forms, tables, charts, and cards) that simplified complex workflows and ensured consistency across the platform.
- Designed RESTful backend services and data models with FastAPI, MongoDB, and Docker to support simulation features and ensure efficient data management.
- Contributed to the development of a CRM application used by customers to manage their own projects, handling both frontend and backend tasks to extend functionality and improve usability.

Jr. Software Developer

Mar 2023 – Jul 2023

i4Works - integrates software development with civil engineering applications

Ankara, Türkiye

- Collaborated on the development of a full stack web application using Next.js, Tailwind CSS, and MongoDB, contributing to both frontend and backend tasks.
- Built RESTful API endpoints with Next.js API routes and integrated them with dynamic frontend pages, including authentication flows (login/registration with validation) and an admin dashboard for user/content management, improving usability and maintainability for clients.
- Utilized MongoDB with Mongoose for structured data modeling and validation. Also developed a small VBA automation tool to streamline reporting tasks, reflecting an early focus on efficiency and process improvement.

Skills

Programming Languages: JavaScript, TypeScript, Python, Java, SQL, HTML, CSS

Web Services: RESTful APIs, GraphQL, SOAP, gRPC

Frameworks & Libraries: Next.js, React, FastAPI, Babylon.js, Three.js, Express.js, Flask, Spring Boot, Tailwind CSS, Redux, shadcn/ui, NextUI, radix-ui, Highcharts, Leaflet, Geoman.io, Turf

Databases & Tools & Platforms: MongoDB, Firebase, MySQL, PostgreSQL, Supabase, Git, GitHub, Docker, Redis, Google Cloud Run, Figma

Web Development: Web applications, web architecture, scalable systems design

Other Skills: Computer Science fundamentals, project management skills (Agile, Scrum, Jira, Confluence)

Education

Middle East Technical University (3.81 / 4.00)

Ankara, Türkiye

Graduate School of Informatics, Information Systems (Thesis stage)

2023 - Present

- IS528 Software Architecture
- IS587 Big Data (Apache Hadoop, MongoDB, Neo4j, Apache Kafka, Apache Spark)
- CSEC519 Blockchain and Cryptocurrency Technologies
- IS502 Information Systems Project (Jira, Confluence, Python, FastAPI, Next.js, TypeScript, MongoDB, Google Cloud Run, Agile)
- IS529 Software Project Management (Confluence, Agile)
- IS721 Business Process Management (BPMN, Camunda)
- IS550 Web Services and Service-Oriented Architecture (Java, Spring Boot, SOAP, REST, gRPC, GraphQL)
- IS501 Int. Information Systems (IS, IT, IoT, Business Models)
- IS503 Database Concepts and Applications (ER Diagrams, Relational Algebra, SQL, MySQL)
- IS504 Computer Networking for Information Systems
- IS507 Int. to Software Engineering (Soft. Dev. Processes, Requirements, Diagrams, Project Management)

Middle East Technical University (2.77 / 4.00)

Ankara, Türkiye

Bachelor of Engineering, Civil Engineering

2017 - 2023

- CENG301 Algorithms and Data Structures (C++)
- CENG305 OOP with JAVA
- CE461 Computer Applications (MATLAB, Excel VBA)

Volunteering

Volunteering Teaching Assistant at METU, Department of Civil Engineering

(Sep 2022 - Jul 2023)

Prepared creative and challenging assignments, and lecture materials in MATLAB and VBA.

Head of the METU eSports Society

(Jul 2021 - Jul 2022)

METU GEEEX - METU Gaming and Electronic Entertainment Fair

(Mar 2019 - Jan 2020)

Event Coordinator