

Muhammet Mustafa Bilgin

Frontend Developer

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Someone who enjoys designing, developing, and solving problems using web technologies. I have improved myself in these areas and I believe I am capable of putting pieces together and designing things. Details are what make the whole beautiful, and in this context, I think that every detail should be close to perfection in terms of beauty. I believe this makes me competent.

Current interests: React.js, Astro, Next.js, Node.js, Three.js, Web Services.

Experiences

Toyota Boshoku Türkiye – Hybrid

Frontend Developer

Jan 2024 – Present

Collaborate within the IoT Team as a frontend developer, contributing to the design.

- Engineered scalable and high-performance frontend interfaces and web applications using React.js , Astro, and Next.js for IoT solutions, improving user experience and system responsiveness.
- Designed and implemented interactive dashboards and data visualizations using Grafana and ELK stack (Elasticsearch, Logstash, Kibana) to transform large IoT datasets into actionable insights.
- Developed web applications in PWA structure to streamline production processes and reduce manual monitoring efforts.
- Led the adoption of microfrontend architecture (Webpack Module Federation) to create modular, reusable code structures, improving development efficiency and feature rollout speed.
- Built real-time communication interfaces with WebSocket and MQTT protocols, ensuring seamless data synchronization and low-latency updates.
- Ensured compliance with UX and accessibility (a11y) standards in all interface designs, enhancing user engagement and satisfaction.
- Collaborated closely with IoT and backend teams to define frontend architecture and optimize workflows across projects.

Tech Stacks: React.js, Astro, Tailwind CSS, ELK Stack (Elasticsearch, Logstash, Kibana),Grafana, Microfrontend Architecture, Postman, Azure DevOps, Figma.

Hattat Holding A.Ş. – On-site, Turkey

Frontend Developer / Occasional Full-Stack

July 2022 – Jan 2024

Work as a frontend developer in the Digital Transformation Team and I also take on full-stack roles on a project basis.

Responsible for creating the frontend architecture:

- Created report pages and interfaces for data collected from IoT equipment, enabling visualization and analysis of machine data.
- Developed React.js, Next.js, and ASP.NET based web applications, including data entry pages, dashboards, and 3D visualizations using Three.js.
- Modernized and enhanced existing web projects with new technologies and optimized performance.

Tech Stacks: Reactjs, Next.js, Remix.run, Redux, Chakra UI, Tailwind CSS, Ant Design, and ASP.NET (using Figma for UI/UX and illustration design).

Other responsibilities:

- Developed Node.js based RESTful and .NET based SOAP services for secure data transfer, and refactored legacy SOAP services into RESTful structures to enhance performance and bandwidth efficiency.
- Designed and developed MSSQL databases aligned with project requirements.
- Managed IIS servers and related services, including setup, monitoring, and maintenance processes.
- Designed UI prototypes for web applications to support project planning and frontend development.

Tech Stacks: Node.js, Express, Fastify, Prisma. (Also experience with ORM technologies such as Knex, Objection)

Technical Skills

Frontend : React.js, Next.js, Astro, Remix.run, Tailwind CSS, Chakra UI, Ant Design, Radix UI, Three.js, Microfrontend Architecture (Webpack Module Federation), PWA development, Responsive & Accessible (a11y) design, UI prototyping, UX standards compliance, W3C standards

Backend : Node.js, Express, Fastify, .NET, RESTful & SOAP services, MSSQL, Prisma, Knex, Objection

Data Visualization & IoT: Interactive dashboards, IoT data processing, Data visualization with ELK Stack (Elasticsearch, Logstash, Kibana) and Grafana, Real-time communication with WebSocket & MQTT

DevOps & Tools: Azure DevOps, Postman, Version control (Git), CI/CD workflows, IIS server management

UI/UX & Design: Figma, AI-based Illustration design

Educations

Associate Degree – Computer Programming

Ege University, Turkey - 2016 - 2018

GPA (4.0 Scale): 3.37

Open Source Society University (OSSU) – Computer Science Curriculum

Online, Self-Paced

2024 – Present

- Completing core CS subjects: Algorithms, Data Structures, Databases, Operating Systems, Computer Architecture
- Based on MIT, Harvard, Stanford course material (edX, Coursera, YouTube)
- Practicing with hands-on projects and coding assignments

Languages

Turkish (Native)

English (B1+)

Certificates

ChatGPT ile Harmanlanmış Problem Çözme Teknikleri

İstanbul Sanayi Odası

Date: September 2023

Credential ID: EGT-6123-17