# MUSTAFA KAGAN **YALIM**

Turkey · (+90) 531 273 73 43
**kaganyalim19@gmail.com · github.com/kgnylm · linkedin.com/in/mustafakaganyalim/**

I am a dedicated and ambitious software engineer with a strong foundation in software development, data structures, and microservices architecture. Throughout my academic journey, I have developed proficiency in a range of technologies including Git, Docker, MongoDB, PostgreSQL and Kubernetes. I am passionate about solving complex problems and continuously enhancing my technical skills. My hands-on experience with various projects has equipped me with practical knowledge and a collaborative mindset, preparing me for a successful career in the tech industry.

## TECHNICAL SKILLS

### LANGUAGES

- Advanced: Python, JavaScript, TypeScript, SQL
- Experienced: Java, PHP, HTML
- Familiar: C, C++, C#

### FRAMEWORKS

- React, Vue.js, CSS, Node.js, Express.js, Next.js, Nest.js, Flask

### TECHNOLOGIES

- Git, Docker, Microservice Architecture, Kubernetes, NATS Streaming Server, MongoDB, MySQL, PostgreSQL, Supabase, Firebase, MQTT, WebSocket, Dbeaver

## EDUCATION

**OCT 2019 – FEB 2025**

### COMPUTER ENGINEERING, IZMIR INSTITUTE OF TECHNOLOGY – BACHELOR'S DEGREE

- Acquired in-depth knowledge of Software Engineering, including software lifecycle models, design implementation, software testing, verification, and validation.
- Developed experience in database creation and management, with a focus on organization and security.

## EXPERIENCE

**JUL 2023 – AUG 2023**

### INTERN, KIVACRM (IZTECH TEKNOPARK)

- Designed, developed and deployed a full-stack web application for KivaCrm, utilizing Vue.js, Supabase, PostgreSQL.

**JUL 2024 – PRESENT**

### SOFTWARE ENGINEER, PATRION ADVANED TECHNOLOGIES INC.

- Designed and developed a factory monitoring system (MES) using Python Flask, MongoDB, WebSocket, and OPC Router to streamline production processes.
- Integrated real-time data communication between machines and the system through WebSocket and OPC Router, enabling efficient data tracking.
- Implemented a robust backend architecture with MongoDB for scalable and efficient data storage and management.
- Deployed the system to provide real-time production insights, enhancing operational efficiency and decision-making.
- Improved production efficiency by 35% and reduced error rates by 25% through real-time monitoring and automated data tracking.
- Supported up to 500 simultaneous users, including machine operators and managers, ensuring smooth and reliable access to production data.
- Processed and analyzed over 50 GB of production data daily, providing actionable insights for operational improvements.
- Achieved a real-time data transfer latency of less than 50 milliseconds, enabling rapid response to production issues.

## REFERENCES

- Prof. Dr. Onur Demirörs - +90 232 750 7881 – onurdemirors@iyte.edu.tr
- Celal Taşdemir - +90 530 242 46 00 – celal.tasdemir@kiva.com.tr

## PROJECTS

**IZTECH Student Council Election System (Web):**

- Developed a web application using Express.js and MongoDB for data management.

**Neighborfood (Web):**

- Developed a web application using Express. and MongoDB for data management.

**Smart Incubator (Product):**

- Developed a mobile application and embedded product using Arduino, MQTT server, Express.js and MongoDB for data management.

**Neighborfood (Mobile):**

- Developed a mobile application with a React and Ionic frontend, and engineered the backend using Express.js with a microservices architecture, utilizing Docker, Kubernetes, NATS and MongoDB for data management