



# Muhammed Said Kaya

Jr. Software Developer

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Who wants to learn new things, constantly wants to improve himself and add new technologies to his stack, and tries to write cleaner code day by day. Main interests are backend development and operations part. Vision is to master the technologies and architectures of microservices to create scalable and highly reliable software systems.

## EDUCATION

### Computer Engineering Hacettepe University

08/2016 - 08/2021

GPA : 3.36/4.00

- **Graduation Project Blockchain-based decentralized application**
- In order to guarantee the immutability of the documents belonging to the students, a smart contract was written that keeps the hash values of the document by making use of the immutability provided by the blockchain infrastructure.
- File Repository in Ethereum Network
- The data in this contract was accessed with Web3.js. The original versions of the documents were also kept in the distributed storage center named IPFS.

## WORK EXPERIENCE

### Software Developer (Part-Time) Tübitak Bilgem YTE

10/2020

Ankara-Turkey

*Tübitak Bilgem YTE develops R&D-oriented software solutions that take into account technologies and innovative approaches in order to meet the digital transformation needs of public institutions and organizations that provide digital policy. It is Turkey's only public institution with Capability Maturity Model Integration(CMMI) Level 5 certification.*

- **Worked on The "Collection", "Accrual", "Asset" microservices of the "BKMYBS" project**, which enables the joint management of the accounting transactions of all public institutions and organizations within the scope of the central government budget.

### Software Engineering Intern Tübitak Bilgem YTE

07/2020 - 08/2020

Ankara-Turkey

- Created a Single Page Web Application (**Activity Management System**). ReactJS, Spring Web, Spring Data JPA, Spring Security and PostgreSQL used. For geological informations Geocode and Google Map used.

## KNOWLEDGE

Microservice Architecture

Domain Driven Design

Design Patterns

Event Driven Architecture

Test Driven Development

Agile&Scrum

CI/CD

VCS (Git)

Web Services (REST/SOAP)

Java

Spring

Kafka

ELK Stack

Docker

SQL

MySQL

PostgreSQL

JavaScript

React.JS

Express.JS

Blockchain

Smart Contracts

## PROJECTS

Web Application : Local Firestore (NoSQL Database)

- Command Pattern for encapsulating CRUD requests on any document and by using stack of requests, undoable redoable operations created and collections are committed, extracted (XML, JSON)

Paper : Quorum Permissioned Blockchain

- Paper that is about Blockchain history, structure and Bitcoin technical details. Quorum Network which is one of the permissioned blockchain analyzed in terms of private transaction requirement enterprise industry.

Mobile/Arduino Application : Bluetooth RC Car

- RC car with Bluetooth and Wi-Fi technology for video surveillance, discovery & reporting purposes, in the context of our Hacettepe University Wireless Network course final project. Using HC-05 Bluetooth Module, Arduino UNO component and a Flutter Mobile application, the car controlled remotely.

Desktop Application : Crypto Messenger

- Using AES and DES from Block Cipher methods, CBC and OFB from modes, a Multi client/Broadcast server was set up with Java Socket Programming. When the clients are raised, the symmetric keys on the server are transmitted to the clients and the encryption of the messages has been ensured through this key. An interface has been implemented with Java Swing.

Web Application : Bookstore

- Single page application created by using React, Spring Web, Spring Data JPA, Spring Security and MySQL for Software Engineering course term project with my friends. For authentication mechanism Role-based JWT token used. This application was on book trading for e-commerce