

# FURKAN MUMCU

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## EDUCATION

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**Bilkent University** Ankara, Turkey  
*Computer Engineering, BS*

2013 - 2018

## WORK EXPERIENCE

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**Turkish Economy Bank** Izmir, Turkey  
*(Software Engineer)*

July 2018 - now

I work as full-stack developer at Turkish Economy Bank. Currently I am a part of the developer team of TEB Turbo/Jet project, which is an improved ATM where customers are able perform transactions which are impossible to be performed by regular ATMs. such as making video conference with a customer representative or receiving new credit card from the machine. The common approaches/technologies that are used in the project includes;

- Scrum Approach
- Java and Javascript as default development language
- Java EE for server-side, back-end development
- Spring Framework as the the back bone code
- Maven as deployment and build management tool, AspectJ for AOP Framework
- Javascript, jquery, Spring webflow for front-end development
- Oracle pl/sql for database transactions

**Turksat** Ankara, Turkey  
*(Intern)*

July 2017 - August 2017

During my internship, I developed a project that checks Turksats servers and services to see if they are up or down. The fundamental features of this application were having a web-based user interface, controlling desired servers and services for given time periods, showing necessary information for each server or service and notify users in case of inaccessibility of servers. The common approaches/technologies that were used in the project includes;

- Hibernate framework
- Primefaces framework
- PostgreSQL

**Logo Software** Ankara, Turkey  
*(Intern)*

May 2016 - June 2016

At Logo Software, I contributed a java web application which was implementing Decision Model and Notation. The common approaches/technologies that were used in the project includes;

- Vaadin Framework
- MongoDB
- SpringBoot

### **Elective Computer Engineering Courses Taken**

- CS 411 Software Architecture Design
- CS 413 Software Engineering Project Management
- CS 415 Software Product Line Engineering
- CS 421 Computer Networks
- CS 432 Machine-to-Machine (M2M) Systems

### **Vear**

Senior Design project which is developed to improve the home environment quality of hearing impaired people. The system listens for pre-defined sounds such as door bell, then, when the sound is heard, system gives a notification. The user interface of the system is a mobile application, so that users control entire system via their mobile phones. Also, an internet of things environment will be established in the home. Sound listening feature can be done with the mobile application or raspberry pi devices which are located at desired locations in the home. For the notifications, users have several options such as vibrating their phone or turning on/off their lights which are connecting to our internet of things system.

Source code;

<https://github.com/furkanmumcu/Vear>

### **Extended MIPS Processor**

A new MIPS processor which adds and implements new instructions in existing Mips instruction set.

Source code;

<https://github.com/furkanmumcu/Extended-MIPS-Processor>