

# Mustafa Arif Şişman

Computer Science Engineer

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## OBJECTIVE

I aim to achieve the most automated and optimized result possible, following the principles of agile software development and analytical thinking. I work in the field of data and web technologies.

## EDUCATION

- **Akdeniz University** Antalya, Turkey  
*Computer Science & Engineering, Bachelor of Engineering, GPA: 3.34/4* Sep. 2016 – Jul. 2020
- **Asfa Ferda** Ankara, Turkey  
*Anatolian High School* Sep. 2011 – Jun. 2015

## EXPERIENCE

- **VakıfBank** Istanbul, Turkey  
*Data Engineer, Business Intelligence and Reporting Department* May. 2021 - Present
- **6Zeka** Antalya, Turkey  
*Software Engineer* Aug. 2020 - Sep. 2020
  - **Price Change Analyzer:** A MATLAB model uses counter-party data to predict price changes on the instruments.
  - **Customer Management Service:** Online shopping integration with Spring Boot, Kotlin, Hibernate, PostgreSQL
- **Havelsan Technology Radar** Ankara, Turkey  
*Intern, Research and Development Directorate* Aug. 2019 - Sep. 2019
  - **Spring Security Configurations:** Boilerplate project for Spring Framework. SSL, CORS and Kerberos Authentication configured.
  - **ArcGIS App:** Node.js App integrated with ArcGIS API.
- **Aselsan** Ankara, Turkey  
*Intern, Radar and Electronic Warfare Systems, Radar Mission Software Directorate* Jul. 2019 - Aug. 2019
  - **METCM Management Software:** Weather Reporting App with Java Swing library.
- **Türksat Satellite Communications and Cable TV Operations** Ankara, Turkey  
*Intern, IT Research and Development and Technology Directorate* Aug. 2017 - Sep. 2017
  - **SatCloud Admin Panel:** Node.js App with Express server.

## PROJECTS

- **wolfpack:** A mobile chat app that helps to find family plans for streaming services. Written with Typescript and React Native Framework. Firebase, Redux and Redux-Thunk.
- **Play2Gether:** A platform for listening to music together for Spotify. 3-Tier Model
  - **Web Service:** Microservice Architecture, Spring Framework, Hibernate, Spring VIP library
  - **Application:** Android, Kotlin
  - **Database:** PostgreSQL
- **Predict Future Sales:** Kaggle Competition, Predicting future sales with LSTM architecture, written with MATLAB.
- **Covid19 Cases Visualization:** Visualization for covid19 cases on the world map from the raw latitude & longitude information, written with MATLAB.
- **Scenic Spot & Area Finder:** Extracting scenic spots and areas from the raw latitude & longitude information from the photo archives, written with MATLAB.

- **ANN Classifier from Scratch:** Artificial Neural Network Classification for MNIST dataset from scratch, written with Java.
- **Forex Parity Prediction:** Predicting the weekly prices for Forex parities from the past 5 months data with LSTM architecture, written with Python using TensorFlow and Keras.
- **Beowulf Cluster:** Parallel computing on the Ubuntu Server cluster.
- **N-gram Analyze:** N-gram analyzes written with C language using Message Passing Interface (MPI) library.
- **Academic Journal Finder:** Journal finder system for academic publications based on similarity detection, written with Python using Flask Framework.
- **Similarity Detection:** Similarity calculation between texts, written with Python using SciKit and SkLearn libraries.
- **Raspberry PI VPN TOR Hotspot:** WireGuard VPN, Ubuntu Server, and shell scripting.
- **CryptoDrive:** Encryption, decryption and synchronization between local folders and Google Drive, written with Java using Google Drive API and Java Cryptography Extension.
- **Online Polling Platform:** Real-time polling platform like StrawPoll.
  - **Core:** Spring Framework
  - **Database:** MongoDB
  - **Logging:** Graylog, Elastic Search
  - **Data Processing:** Apache Spark
- **Car Plate Detection:** Scanning CCTV streams for cars and their plates, written with Python using OpenCV library.
- **Multi-Threaded Downloader:** IDM Like Downloader, written with C language using POSIX Thread Library.
- **Assembly Encrypter, Decrypter and Crack:** Microsoft Macro Assembler (MASM) and Irvine32 Library.
- **8-Puzzle Solver:** A\* Search algorithm implementation with Java.

## KEYWORDS

Java & Kotlin	Spring Framework, Hibernate, Android
Python	MQTT, Flask
C Lang	OpenMPI, POSIX Threads
TypeScript	React, React Native, Node.js
MATLAB	Statistics, Machine Learning, Deep Learning
PL/SQL	PostgreSQL, Oracle
NoSQL	MongoDB, Hadoop, Firebase
VCS	Git, GitLab, GitHub
Containerization	Docker, Docker Compose
CI & CD	GitHub Actions, GitLab CI
Build	Maven, Gradle, Npm, Yarn, Make
Auth	OAuth 2.0, JWT
UNIX	Daily usage, Bash scripting

## CONTRIBUTIONS

- **Spring VIP Library:** A Kotlin Spring library that provides helpful generic and utility classes. Some of the features provided by the library are generic CRUD services and REST controllers.
- **HowTo Project:** Browser file manager for folders and markdown contents.

## LANGUAGES

- **Turkish:** Native
- **English:** C1, Foreign Language Test Score(YDS): 80/100