# Mustafa Arif Şişman

Computer 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 can take part in every step of the software development lifecycle. I work in the field of artificial intelligence and web technologies, I am an active learner.

## EDUCATION

- **Akdeniz University** — Antalya, Turkey
  *Computer Science & Engineering, Bachelor of Engineering, GPA: 3.34* — *Sep. 2016 – Jul. 2020*

- **Asfa Ferda** — Ankara, Turkey
  *Anatolian High School* — *Sep. 2011 – Jun. 2015*

## EXPERIENCE

- **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*

- **Aselsan\*** — Ankara, Turkey
  *Intern, Radar and Electronic Warfare Systems, Radar Mission Software Directorate* — *Jul. 2019 - Aug. 2019*

- **Türksat Satellite Communications and Cable TV Operations\*** — Ankara, Turkey
  *Intern, IT Research and Development and Technology Directorate* — *Aug. 2017 - Sep. 2017*

## VOLUNTEER EXPERIENCE

- **Yazılım VIP** — Antalya, Turkey
  *Co-Founder* — *Apr. 2019 - Present*

- **AI, IT and SecOps Club** — Erciyes University, Kayseri, Turkey
  *Board Member* — *Oct. 2015 - Jul. 2016*

## SKILLS

| Qualification | Experience | Description |
| --- | --- | --- |
| Java | 4 yr. | Spring Framework, Hibernate Framework |
| Kotlin | 2 yr. | RxJava, Retrofit, OkHttp, Stomp WS |
| Python | 4 yr. | TensorFlow, OpenCV, MQTT, Django, Flask |
| C | 4 yr. | OpenMPI, POSIX Threads |
| TypeScript | 3 yr. | React, React Native, Node.js |
| MATLAB | 1 yr. | Statistics, Machine Learning, Deep Learning |
| SQL | 4 yr. | PostgreSQL, MySQL |
| NoSQL | 3 yr. | MongoDB, Firebase, Elastic Search, Hadoop |
| VCS | 4 yr. | Git, GitLab, GitHub, BitBucket |
| Containerization | 3 yr. | Docker |
| DevOps | 2 yr. | GitHub Actions, GitLab CI, Jenkinks |
| Build Automation Systems | 3 yr. | Maven, Gradle, Npm, Yarn, Make |
| Authorization / SSO | 2 yr. | OAuth, Kerberos, JWT, Active Directory |
| UNIX | 4 yr. | Daily usage, Bash scripting |

## 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.

## 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

**\*** Due to the confidentiality agreement, the work done has not been added.