Mustafa Arif Şişman

Computer Science Engineer & Software Developer

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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 Science, GPA: 3.34 — *Sep. 2016 – Jul. 2020*

Erciyes University — Kayseri, Turkey
Computer Engineering, Undergraduate — *Sep. 2015 – Jun. 2016*

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

EXPERIENCE

6Zeka Teknoloji Yazılım Geliştirme A.Ş. — 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 Teknoloji Radar A.Ş. — Akyurt, 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 A.Ş. — Gölbaşı, 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 Uydu Haberleşme Kablo TV ve İşletme A.Ş. — Gölbaşı, Ankara, Turkey
Intern, IT Research and Development and Technology Directorate — *Aug. 2017 - Sep. 2017*
- **SatCloud Admin Panel**: Node.js App with Express server.

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
JavaScript	3 yr.	TS, ES6, React JS, React Native, Node, Express
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
Other	2 yr.	RabbitMQ, JIRA, Postman, PgAdmin

Projects

- **Play2Gether:** A platform for listening to music together for Spotify.
  - **Web Service**: Spring Framework, JPA, Hibernate, Spring VIP library
  - **Application**: Android, Kotlin

- **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**: Docker, MongoDB
  - **Logging**: Docker, Graylog, Elastic Search
  - **Authentication**: Active Directory
  - **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.

- **MetaTrader Indicator**: Trend Alert for Forex parities written with MQL4.

- **8-Puzzle Solver**: A* Search algorithm implementation with Java.

Volunteer Experience

Yazılım VIP	Antalya, Turkey
Co-Founder	*Apr. 2019 - Present*
Yapay Zekâ, Bilgi Teknolojisi ve Güvenliği Kulübü	Erciyes Üniversitesi, Kayseri, Turkey
Board Member	*Oct. 2015 - Jul. 2016*

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.
  - **Component**: React JS component, written with ES6 and state container with Redux.
  - **Publisher**: GitHub Action which publishes the JSON content generated from HowTo Script to Firebase.
  - **Service**: Service to generate and serve JSON. Written with TS in Node Express environment.
  - **Script**: Helper script to generate JSON from your HowTo Archive. Written with TS in Node Express environment.

Languages

- **Turkish**: Native
- **English**: C1
- **German**: A1