

# Mustafa YILDIZ

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## Education

**Bilkent University** | *Ankara, Turkey*

BS Computer Engineering, GPA: 3.0/4.0 (Honor Student) *graduated in August 2017*

*Advanced Coursework:* Distributed Systems and Algorithms, Introduction to Machine Learning, Database Systems, Intermediate Logic, Systems Analysis and Design, Software Architecture Design, Software Product Line Engineering

## Experience

**IMS Teknoloji** | *Ankara, Turkey*

Software Engineer

*Oct 2017 - present*

- Implemented the backend & frontend of a high-traffic government website's admin panel
- Working on the maintenance of big-data stream

**Impuls Ing d.o.o** | *Rijeka, Croatia*

Software Engineer Intern

*Summer 2016*

- Implemented a patch update for a critical bug for company's commercial software
- Implemented the back-end and front-end of a new client management system

**TaleWorlds Entertainment** | *Ankara, Turkey*

Software Engineer Intern

*Summer 2015*

- Designed and implemented an auto game object generation module
- Implemented a basic optimizer to reduce code compilation time by one half
- Performed testing on game engine revisions

## Skills

Languages: Java, Python, Swift, Javascript, C, C++, Bash

Frameworks: Spring, Django, Hibernate, Webpack, SciPy, sci-kit learn, NLTK

Tools: Git, SVN, Maven, Xcode, Eclipse

## Projects

*(Click project titles for more details)*

**RPC System Middleware Implementation with Stub and Skeleton Generators**

- Implemented a generic RPC middleware with client stub and server skeleton generators
- Communication mechanism over sockets for a given service and functions
- JSON-based interface definition language for users to define desired
- Capable of handling a wide range of faults and errors, that originate from client and server

**TurjeeMan – An Interface and Tools to Create Feature-Rich Translations**

- Implemented back-end server with Django and PostgreSQL database
- Created pipelines for inter-server communication of all components over REST calls
- Developed hyper-graph model in token-to-token Mapper component
- Mapper dynamically updates the data set of all translated texts by using user inputs

**Movie Genre Detection Based on Subtitle Analysis Methods**

- Built script for automatic subtitle data collection and preprocessing
- Preprocessed the data by using NLTK platform
- Implemented bag-of-words model and Naive Bayes Classifier

**Library Management System**

- Designed and implemented a library management system with OOSD principals
- System operates on Django and uses MySQL database

## Achievements

**High Honour Student in '16-'17 Spring Term**

**Full-Ride Scholarship Awarded by Bilkent University**

**In the 0.001<sup>th</sup> percentile in University Entrance Exam** among 1.5 mil. participants

## Activities

**The Contribution of M. Wollstonecraft to Contemporary Issues in Philosophy**

Respondent at the conference held in Bilkent University at June 1, 2017.

**Undergrad Teaching Assistant for Intro to Java Programming Course**

Managing lab sessions, guiding and helping students