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

Impuls Ing d.o.o | *Rijeka, Croatia*
Software Engineer Intern   **Summer 2015**
- Implemented a patch update for company's commercial software
- The patch fixes a critical bug in clients by accessing main server
- Implemented the back-end and front-end of a new client management system

TaleWorlds Entertainment | *Ankara, Turkey*
Software Engineer Intern   **Summer 2014**
- Designed and Implemented an auto-game object generation component
- Implemented a basic optimizer to reduce code compilation time
- Performed unit-tests on game engine revisions

Skills

Proficient in:	C, Python
Experience with:	C++, SQL, Java, MATLAB
Software/Frameworks/Tools:	Django, Git, SVN, RegEx, Bash, sci-kit learn, NLTK Eclipse, Visual Studio, Xcode, Xilinx ISE

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
- Typesetting the final document in Latex

Library Management System
- Designed and implemented a library management system
- System operates on Django and uses MySQL database
- Followed the Object Oriented Software Design principals

Achievements

High Honour Student in '16-'17 Spring Term

Full-Ride Scholarship Awarded by Bilkent University

In the 0.001^{th} percentile in Nationwide University Entrance Exam
among 1.5 million 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

Volunteer Instructor for Bilkent University Social Awareness Projects
Lecturing middle-school children who cannot afford high-school placement exam preparation course for a year