Mustafa YILDIZ

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Education

Middle East Technical University | *Ankara, Turkey*
MS in Computer Engineering   *Jan 2019 - present*
  Thesis work: Provably safe and reliable learning algorithms and protocol verification

Bilkent University | *Ankara, Turkey*
BS Computer Engineering, GPA: 3.0/4.0 (Honor Student)   *2017*

Experience

ASELSAN | *Ankara, Turkey*
Avionics Software Engineer   *Aug 2018 - present*
- Graphical updates to operational flight program and avionics' cockpit display system
- Software design, implementation and integration for real-time embedded avionics software
- Compliance with international DO-178B and internal Avionics development standards
- Decomposing system level and high level requirements and supporting certification activities
- Collaborating on software requirements management, design and code reviews
- Working in a multidisciplinary team, architect, design, develop to update functionality

IMS Technology | *Ankara, Turkey*
Software Engineer   *2017 - July 2018*
- Implementation of a high-traffic government website and web services (*deprem.gov.tr*)
- iOS Development for a government agency
- Working on the maintenance of big-data processing streams

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, C, C++, Swift, Javascript, Python
Frameworks:	Spring, Hibernate, SciPy, sci-kit learn
Tools:	VAPS XT, IBM Rational Rhapsody & DOORS, MULTI, Git, Eclipse, Xcode

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

Achievements

High Honour Student in '16-'17 Spring Term
Full-Ride Undergraduate Scholarship awarded by Bilkent University
In the 0.001th percentile in University Entrance Exam among 1.5 mil. participants