

ZEYNEP AKKALYONCU YILMAZ

Master's student working on deep learning for natural language processing at the University of Waterloo

EDUCATION

- present
2018
- **MMath in Computer Science**
University of Waterloo 📍 Waterloo, ON, Canada
GPA: 91.00 / 100.00
Courses: Theory of Deep Learning, Data-Intensive Distributed Computing, Data Infrastructure
- 2017
2013
- **BS in Computer Engineering**
Middle East Technical University 📍 Ankara, Turkey
GPA: 3.37 / 4.00
Ranked in the top 10% of the graduating class

EXPERIENCES

- present
2018
- **Graduate Research Assistant**
University of Waterloo 📍 Waterloo, ON, Canada
 - Working on neural text generation models with Prof. Jimmy Lin at the Data Systems Group
 - Currently focusing on improving the quality of question generation from free text and knowledge graphs
- present
2018
- **Graduate Teaching Assistant**
University of Waterloo 📍 Waterloo, ON, Canada
 - Evaluated the assignments of the course Principles of Data Management and Use
 - Managed the discussion forums and course content over the online learning platform UW LEARN
- 2017
2016
- **Undergraduate Research Intern**
KOVAN Research Lab 📍 Ankara, Turkey
 - Built a deep reinforcement learning agent that manipulates stacked objects using TensorFlow
 - Wrote Python scripts to generate random scenes in Blender to train and test models
 - Conducted literature review regarding robotic action planning based on natural language commands
- 2017
2015
- **Undergraduate Teaching Assistant**
Middle East Technical University 📍 Ankara, Turkey
 - Collaborated with the instructor in lab preparation and execution for the course Data Structures
 - Assisted 100+ students in their programming labs of the course Introduction to C Programming
- 2015
- **Software Engineering Intern**
ASELSAN Inc. 📍 Ankara, Turkey
 - Developed software prototype to track and plot movement of a mobile device in real time
 - Implemented C++ library that extracts and displays motion information from built-in sensors
 - Explored and benchmarked different signal processing techniques in terms of speed and robustness

SELECTED PROJECTS

- 2018
- **Study of Solr on Large-Scale Document Collections**
<https://github.com/ljj7975/solr-evaluation>
 - Evaluation of the effectiveness of Solr as a search tool for terms with different selectivity
 - Implemented multi-threaded and distributed variations of a sample data analytic workload in Scala with Solr and Spark
 - Compared the performance of querying with Solr and filtering over documents with Spark in a Kubernetes cluster
- 2018
- **Tardis NMT**
<https://github.com/achyudhk/Tardis>
 - Distributed ensemble of seq2seq models with different hyperparameters and data splits in Keras
 - Trained and tested the ensemble across a cluster with PySpark using Elephas
 - Assessed the ensemble's effectiveness for the neural machine translation task on WMT'14 datasets
- 2017
- **Smart Shopping List**
<http://senior.ceng.metu.edu.tr/2017/thechaincoders/>
 - Cross-platform mobile Xamarin shopping list application written in C#
 - Built a RESTful API with Django around a SQLite database running on an Azure Linux VM
 - Created a hybrid recommendation system in Python to make tailored product suggestions
 - Implemented a virtual shopping assistant using NLTK featuring speech detection and generation

CONTACT INFO

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🌐 zeynepakkalyoncu.me
🔗 [zeynepakkalyoncu](https://github.com/zeynepakkalyoncu)
in [zeynepakkalyoncu](https://www.linkedin.com/in/zeynepakkalyoncu)

SKILLS

Python	SQL
C++	Spark
C	Hadoop
Scala	Kubernetes
Java	Docker

PyTorch	Git
TensorFlow	Unix
Keras	Bash
NumPy	
Matplotlib	
NLTK	
MATLAB	
pandas	

LANGUAGES

English Turkish French
Russian Finnish

ACTIVITIES

Technovation Mentor
Turkish National Chess Team Player
TED Symphony Orchestra Violinist