ZEYNEP AKKALYONCU YILMAZ

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

FDUCATION

present 2018 MMath in Computer Science

University of Waterloo

♥ Waterloo, ON, Canada

GPA: 91.00 / 100.00

Courses: 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. limmy 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 exams and assignments of the course Principles of Data Management and Use taught by Prof. Tamer Ozsu

• Managed the discussion forums and course content over the online learning platform UWaterloo LEARN

2017 2016

2015

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

Undergraduate Teaching Assistant 2017

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

Software Engineering Intern 2015

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

ACTIVITIES

Mentor

Technovation ♥ Waterloo, ON, Canada

- Supervising a team of three local middle-school girls during their programming and entrepreneurship journey
- · Helping the development of a mobile application that connects music teachers and aspiring students

Professional Chess Player

Turkish National Junior Chess Team

♥ International

· Represented Turkey at numerous national and international tournaments

• Ranked 8th in Europe at The Hopes of the World 4th Open European Festival in Varna, Bulgaria

Violinist

TED Symphony Orchestra

Ankara, Turkey

• Participated in the establishment of Turkey's first and only amateur symphony orchestra (as of 2017)

• Performed in the first violin section at various venues for 4 years

CONTACT INFO

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zeynepakkalyoncu.me

O github.com/zeynepakkalyoncu

in linkedin.com/in/zeynepakkalyoncu

SKILLS

Pvthon C++

 \mathcal{C}

Scala Java

PyTorch TensorFlow

Keras

NumPy Matplotlib **NLTK**

MATLAB pandas

SQL

Spark Hadoop

Solr Kubernetes Docker

Git Unix Bash

LANGUAGES

English Turkish

French Russian

Finnish