YAGIZ KAYMAK

(201) 587-6542 ♦ yagiz.kaymak@gmail.com

linkedin.com/in/yagizkaymak ♦ github.com/yagizkaymak

SKILLS

- **Data Engineering Tools:** Databricks, Azure Data Factory, Airflow, Hadoop MapReduce, RabbitMQ, Celery
- **Programming Languages:** Java, Python, MATLAB
- **Infrastructure:** Microsoft Azure, Amazon AWS
- **Machine Learning Libraries:** NumPy, Scikit, pandas, TensorFlow, Keras
- **Databases:** SQL Data Warehouse, MySQL, PostgreSQL
- **Web Technologies:** JSP, ASP.NET

EXPERIENCE

GSK – Philadelphia, PA   05/2019 –Current
Manager, Data Engineer
- SQL Data Warehouse (SQL DW) integration and automation (Azure CLI, SQL, Jenkins)
- Implementation of Databricks for data loading from Azure Data Lake to SQL DW (Python)

Insight Data Science – New York, NY   01/2019 – 4/2019
Data Engineering Fellow
- Developed fault-tolerant Apache Airflow architecture having two schedulers, one active, one in standby mode, in case of failures (Python)
- Designed and implemented a high-volume data pipeline using AWS S3 to store historical stock prices, Apache Spark to perform batch processing, PostgreSQL to store processed stock prices
- Tested the fault tolerance of the developed Airflow by using the implemented pipeline (Python, SQL)

New Jersey Institute of Technology – Newark, NJ   01/2014 - 12/2018
Teaching/Research Assistant
- Contributed to the development of Internet packet classification using machine learning and achieved a classification accuracy of 92% (Python)
- Implemented per-packet load balancing for data center networks and improved the completion time of intra-data-center flows by 20% (Network Simulator - 3)
- Designed a gigabit free-space optical communications system for high-speed trains with the collaboration of CRRC (MATLAB)

University of Stuttgart, Institute of Parallel and Distributed Systems – Stuttgart, Germany   04/2013 - 12/2013
Researcher
- Worked on bandwidth-efficient data aggregation techniques for large-scale distributed systems (Java)
- Developed an in-network aggregator to calculate Φ-quantile of all collected data by decreasing bandwidth consumption

Ege University, International Computer Institute – Izmir, Turkey   01/2012 - 03/2013
Research Assistant
- Worked as a principal software engineer, developed a peer-to-peer video streaming system, and implemented it on a global research network called PlanetLab (Java)
- Improved the video bitrate of a mesh-based peer-to-peer video streaming system by 5% with the use of reinforcement learning (C++, Network Simulator - 3)
- Developed a fault-tolerant shortest path algorithm for wireless sensor networks, which improves the network lifetime by 10% (TinyOS)

Izmir University of Economics – Izmir, Turkey   02/2009 - 12/2011
Teaching Assistant
- Conducted laboratory studies and assisted courses of Operating Systems (C), Computer Networks (C), Database Management Systems (MySQL), and Introduction to Programming (C) for around 40 students per semester and evaluated their outcomes

DVP Inc. – Izmir, Turkey   05/2007 - 06/2008
Software Developer
- Developed booking web portals using C# ASP.NET and web services provided by booking.com (C#, ASP.NET, MSSQL)

EDUCATION

PhD: Computer Engineering, New Jersey Institute of Technology - Newark, NJ (2018)

MSc: Computer Science, Ege University - Izmir, Turkey (2011)

BSc: Mathematics, Celal Bayar University - Manisa, Turkey (2003)