Yasin Boloorchi

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EDUCATION

University of Iowa — Iowa City, U.S.
Ph.D. in Computer Science — Aug 2022–Present

University of Kurdistan — Kurdistan, IRN
B.S. in Computer Engineering, last 2 years GPA: 3.6/4, overall GPA: 3.3/4 — Sep 2016–Feb 2021

- Bachelor's Thesis, Under the Supervision of Dr. Sadoon Azizi
- Design a demand-side management system with help of IoT and Big-data technologies

HONORS AND AWARDS

- **Ranked Fifth,** among all 50 computer engineering graduate students in the University of Kurdistan. 2020
- **Top Five Percent,** among all engineering students in the University of Kurdistan. 2020
- **Granted,** National university tuition waiver (including partly necessary expenses). 2016

RESEARCH INTERESTS

- Data Streaming
- Cloud Computing
- Internet of Things
- Big Data Management

PUBLICATIONS

1. **Y. Boloorchi**, S. Azizi, "An IoT-Fog-Cloud Framework for Demand-side Management in Smart Grid". 5th International Conference on Internet of Things and Its Application. (IoT2021)
   - Outcome of Bachelor's Final Thesis

ACADEMIC EXPERIENCE

Computer Engineering Department, University of Kurdistan — Kurdistan, IRN
Research Project, Under the Supervision of **Dr. Sadoon Azizi** — Spring 2019

- Investigation of HDFS (Hadoop Distributed File System)
- Install and maintain Hadoop distributed file systems on the High-performance computation center of the University of Kurdistan in order to upgrade servers' response time and storage capacity.

Kurdistan Cloud Computing Development Company — Kurdistan, IRN
Internship — Summer 2020

- Traffic control system of the science and technology park of Kurdistan
- Contribution to the traffic control system of the science and technology park of Kurdistan using the Telegram messenger API in order to manage employees' commuting for the HR manager.

Teaching

- **Teaching Assistant** at University of Kurdistan   Spring 2021
  Computer Networks, Dr. Sadoon Azizi
- **Teaching Assistant** at University of Kurdistan   Spring 2019
  Computer Architecture, Dr. Alireza Abdollahpouri

Academic Projects

- **Real-time data analysis of users' consumption program (Course: Final Project)**
  Built a statistical model based on a collected big data from IoT devices, which analyzes the power consumption in a local area and does the optimization.
- **Search engine for Persian poets (Course: Data Mining)**
  Constructed a search engine that returns the result of the given query based on four famous Persian poets.
- **Telegram chat analysis (Course: Data Mining)**
  A micro service that exports all the chats from Telegram application and provides a descriptive statistical report such as most most words used and percentage of user participation.
- **Ticket management system (Course: Software Engineering)**
  Created a ticket system that manages all the requests from internal customers.
- **Implementation of Apriori and FP-Growth algorithm (Course: Information Retrieval)**
  Replicated Apriori and FP-Growth algorithms in python for supermarket customers' service recommendations.
- **Universal DFA machine (Course: Formal Languages and Automata Theory)**
  Visualize a DFA machine graphically and check and run the given input string.

Skills

- **Programming:** Python - C - Bash
- **Frameworks and Tools:** Git - Hadoop - Apache spark - Apache kafka - VM virtualBox - Socket programming - Web scraping - GUI toolkits - System administration (LPIC 1) - Apache Spark
- **Markup languages:** LaTeX, HTML, Markdown
- **Operation Systems:** GNU/Linux (Arch, Manjaro, CentOS, Ubuntu and Debian)

Languages

- **English:** Advance
- **TOEFL:** 101 (28/28/23/22)
- **Farsi:** Native

Related Courses

- Data mining (19/20, Top Marks)
- Data Science with python (19.56/20, Top Marks)
- Artificial intelligence (18/20, Top Marks)
- Information retrieval (19.75/20, Top Marks)
- Internet of Things (Full Marks)
- Internet Engineering (19.5/20, Top Marks)

References

- **Sadoon Azizi Ph.D.**
  - Google Scholar: Sadoon Azizi
  - Email: s.azizi@uok.ac.ir

- **Alireza Abdollahpouri Ph.D.**
  - Google Scholar: Alireza Abdollahpouri
  - Email: Abdollahpouri@uok.ac.ir

- **Parham Moradi Ph.D.**
  - Google Scholar: Parham Moradi
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