

ZAHRASADAT (AREZOO) SAJADPOUR

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SUMMARY AND CORE COMPETENCIES

A computer scientist with a great knowledge in algorithm analysis, and programming. Interested in UX design. Known for integrity and adaptability. Looking to apply my knowledge to solve real-world business problems and learn new skills.

TECHNICAL SKILLS

Languages: Java, C/C++, HTML, CSS, Python
Developer Tools: Visual Studio, IntelliJ, \LaTeX , Eclipse,
Libraries: Experience working with pandas, NumPy, Matplotlib

EDUCATION

Masters Computer Science Sep. 2019 – Sep. 2021
University of Manitoba Winnipeg, Canada

Bachelors Computer Science Sep. 2013 – Feb 2018
Shahid Beheshti University Tehran, Iran

EXPERIENCE

Online Algorithm Research Assistant Sep. 2019 – Sep.2021
supervised by Dr. Shahin Kamali University of Manitoba

- Develop and run experiments on algorithms/ Java and Python 3.7.0
- Grader of Analysis of Algorithm and Data Structures course for two semesters

Computational Geometry Research Assistance Feb 2017 – July 2018
supervised by Dr. Farnaz Sheikhi Shahid Beheshti University

- Algorithm analysis: the Chromatic Art Gallery Problem for specific type of polygons (Computational Geometry problem)
- Teaching assistance of Computational Geometry course for one semester

RECENT PROJECTS

IOTA Analysis | *Blockchain Data Analytics* Sep 2020 – Dec 2020

- Creating an IOTA address graph using Hornet 0.5.6
- Implementing the code by Python 3.7.0 to
 - * Receiving the milestone transactions
 - * Extracting tips transactions
 - * Creating the address Graph, and return the balance

Rare Pattern Mining | *Advanced Data Mining* Feb 2020 – Apr 2020

- Detecting rare pattern on a dataset related to Coronavirus provided in Kaggle
- Using SPMF library an open-source data mining library in Java and RP-Growth algorithm
- Studying rare items mining

The Double-Cut-and-Join Model: A Small Survey | *Algorithms in Comparative Genomics* Sep 2019 – Dec 2020

RELATED PROJECTS

Design portfolio website | *Personal projects, 2020*

Design and implementation of Bank System using Java | *Class project, 2015*

- A graphical program in Java to create a bank system and keep the record of accounts and money transition

Design and implementation of flowchart Drawer using Java | *Class project, 2015*

- A modification of paint application in Windows only for drawing, saving and running flowcharts in Java

Prolog program | *Artificial intelligence project, 2015*

- to solve Einsteins riddle

Design and implementation of Ball Mania game C++ | *Class project, 2014*

- A graphical game in C++ using its graphic library

VOLUNTEER EXPERIENCES PERSONAL INTERESTS

Volunteer at MS Society Canada

Communicate with people in Canada who are living with MS

Jan. 2019 – present

Winnipeg, Canada

IOI Office member

The 29th International Olympiad in Informatics

Summer 2017

Tehran, Iran

member of Editorial Board of "Pardazeh"

The Scientific Journal of Computer Science Association, Shahid Beheshti University

2014–16

Tehran, Iran

In addition to volunteering, I have been painting and dress making for couples of years

REFERENCES

Available upon request