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Reza Mashayekhi

Software Developer

Website
GitHub
LinkedIn

Highlights

- BSC and MSC in Computer Science.
- Back-end Developer Intern @ Oracle. Back-end Developer (RA) @ UofA, AMII.
- Ranked 1st GPA Among the Graduated CS Students of Amirkabir University of Technology. 2020, Iran
- Awarded International Mathematics Competition (IMC) Certificate. 2010, Korea
  - ➛ Only 20 middle school students, after two-stage competitive acceptance exams, were selected from Iran to participate in the IMC 2010 Korea

Skills

Languages	Java, Python, C++, C, JavaScript, SQL, Bash, XML, HTML, CSS
Domains	Algorithms, Data Structures, Databases, OOP, Multi-Threading, Machine Learning, NLP
Tools	MySQL, Git, Rest API, WebGL, Linux, JSON, Jira, Jenkins, Confluence, Sonar, Bitbucket
Frameworks/Libraries	Spring, Hibernate, JUnit, Mockito, React
Soft skills	Problem Solving, Attention to Detail, Communication, Time Management

Work Experience

Back-end Developer Intern — **Oracle, Canada (Remote)**

- Enhanced the performance of Data Studio through analysis and optimization of queries (up to 5× fewer queries in one endpoint), resolving bugs, and Implementing automated tests to ensure quality and stability.
- Java, REST API, Multi-Threading, Spring, Hibernate, JUnit, Mockito, Git, Jira, Confluence. 2022 Nov-2023 Mar

Back-end Developer (RA) — **University of Alberta, Alberta Machine Intelligence Institute (AMII), Canada**

- Analyzed and implemented different ways to improve the FastMap heuristic. Tested them against the standard benchmark on 395 maps in parallel. Attained up to 2.5× better performance. (useful in pathfinding of Video games)
- C++, AI, Cloud Computing, Bash 2021 May-2022 Oct

Teaching Assistant — **University of Alberta, Canada**

- Introduction to the Foundations of Computation II - Python. 2021 Jan-2022 Apr

Projects

Simulated Different Objects Using Ray Tracing
Intro to Computer Graphics course - JavaScript, WebGL, HTML *2021*

- Simulated Cylinder and Tetrahedron using Ray Tracing.

Artificial Intelligence for the Reversi board-game
AI course - Java *2020*

- Implemented the AI system of the Non-player-character using Minimax algorithm

Designing and Creating A 3NF Database From YAGO Datasets
Database course - SQL, MySQL, Python *2018*

- Extracted data using TSV files collected from max plank institute website. Processed and Clustered TSV files with Python and MySQL. Designed and created the databese.

A 2D version of the Range-Tree Data Structure
Data Structures course - Java *2017*

- Implemented a 2D version of the Range Tree. Queries are asked in the form of rectangle coordinates.

A Space Efficient skiplist Data Structure
Data Structures course - Java *2017*

- Implemented the SSET with skiplist data structure. Each node consisted a BDeque which resulted in more efficient operations. All operations are done in $O(logn)^E + O(\sqrt{n})$ time.

Education

MSc in Computer Science, *University of Alberta (UofA)*, GPA 3.57/4 2021-2022, Canada
BSc in Computer Science, *Amirkabir University of Technology (AUT)* , GPA 18.77/20 (3.96/4) 2016-2020, Iran