Reza Mashayekhi

Software Developer

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🌐 Website
GitHub
in LinkedIn

HIGHLIGHTS

- Skilled Software Developer with 5+ years of experience in programming.
- Back-end Developer Intern @ Oracle.
- 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, OOP, Agile Methodology, ML, NLP
Tools	MySQL, Git, Rest API, WebGL, Linux, JSON, Jira, Jenkins, Confluence, Sonar, Bitbucket
Frameworks/Libraries	Spring, Hibernate, JUnit, Mockito, React, Angular
Soft skills	Problem Solving, Attention to Detail, Communication, Teamwork, Time Management

WORK EXPERIENCE

Back-end Developer Intern   **Oracle, Canada (Remote)**
- Enhanced the performance of the Data Studio web application through analysis and optimization of SQL queries (up to $5\times$ **fewer** queries in one of the most commonly used endpoints).
- Developed a query counter filter and assessed queries over 130 test classes while resolving conflicting tests. This resulted in finding endpoints that need improvement and helped avoid unnecessary queries in the future.
- Resolved bugs and Implemented automated tests to ensure quality and stability.
- Java, REST API, Multi-Threading, Spring, SQL, Hibernate, Unit Testing, Git, Jira, Confluence   Nov 2022 - Mar 2023

Back-end Developer (RA)   **University of Alberta, Alberta Machine Intelligence Institute (AMII), Canada**
- Designed and developed new different ways to improve the FastMap heuristic.
- Tested new heuristics against a large number of standard benchmark problems on 395 maps in parallel.
- Attained up to $2.5\times$ **better** performance. (useful in pathfinding of Video games)
- C++, AI, Cloud Computing, Bash, Python, Automated testing   May 2021 - Oct 2022

Teaching Assistant   **University of Alberta, Canada**
- Introduction to the Foundations of Computation II - Python.   Jan 2021 - Apr 2022

SELECTED 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, RDBMS Design   *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.

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