

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, 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, 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× fewer** queries in one of the most commonly used endpoints).
 - Developed a query counter filter and assessed SQL 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, JUnit, Mockito, 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× 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**  2021
- Intro to Computer Graphics course - JavaScript, WebGL, HTML*
- Simulated Cylinder and Tetrahedron using Ray Tracing.
- Artificial Intelligence for the Reversi board-game**  2020
- AI course - Java*
- Implemented the AI system of the Non-player-character using Minimax algorithm
- Designing and Creating A 3NF Database From YAGO Datasets**  2018
- Database course - SQL, MySQL, Python*
- Extracted data using TSV files collected from [max plank institute website](#). Processed and Clustered TSV files with Python and MySQL. Designed and created the database.
- A 2D version of the Range-Tree Data Structure**  2017
- Data Structures course - Java*
- 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