# Mahdi Khandaker

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## Summary

- Language: C, C#, C++, ASP.NET Core, R, SQL, HTML, CSS, JavaScript, Python, Scheme.
- Tools: MS SQL Server, Flask, Chart.js, GIT, JIRA, Flowmapp, Balsamiq, MS Office
- Interested in UI/UX, Mobile development, Data Science, Network Security, DevOps,

## Experience

**CompTrak**                                                                    *Aurora, ON*
*.NET Developer*                                                     September – Dec '19

- Migrated existing products from ASP.NET to ASP.NET Core
- Developed new features on existing products according to client specifications
- Optimized queries for mass verification and upload of data into client database
- Performed tests and fixed critical bugs in all the existing products

**JANA Solutions**                                                              *Aurora, ON*
*Jr. Software Developer*                                               Jan – April '19

- Developed enterprise level MVC Web App from scratch using ASP.NET Core and MS SQL Server.
- Built intuitive user interfaces with responsive component as per client specifications.
- Mapped database schema, defined database hierarchy and implemented it using MS SQL Server.
- Designed and created site-maps using Flowmapp and wire-frames using Balsamiq
- Performed stress testing using Apache JMeter, investigated and fixed several critical bugs.

**Canadian Food Inspection Agency**                                           *Ottawa, ON*
*Junior Analyst (Enterprise Architecture)*                        May – August '18

- Automated the process to add 520 entities and 13,000 attributes to QualiWare Lifecycle Manager.
- Designed models with supporting documentation of Agency data and technology environments.
- Engaged with key stakeholders to analyze and develop the Architecture Repository Tool
- Performed analysis and assessment of agency data resources and database application system.

## Projects

**UltraInstinct**                                                        *https://git.io/UlIn*

- Utilized IBM's NLP API to perform sentiment analysis on automated scraped tweets using Flask
- Developed algorithm to generate an overall score for a user from individual sentiment scores

**Sudoku Solver**

- Implemented a backtracking algorithm to provide solutions to Sudoku puzzles using C.

## Education

**University of Waterloo**                                    Sept '17 – Apr '22 *(expected)*
*Honours Bachelor of Computer Science Honours*

- President's Scholarship of Distinction (2017)

**Relevant Coursework**

- Designing Functional Programs, Algorithm Design and Data Abstraction, Object-Oriented Software Development, Logic and Computation.

## Activities

- UW Residence Council (2017-2018) : Planned, Promoted and Organized residence events.