

# AMINA ELTAHIR

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## Education

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**University of Alberta**

Jan 2020 - Apr 2012

**Master of Engineering**

Electrical & Computer Engineering (Software Engineering & Intelligence Systems)

**Sudan University of Science & Technology**

Sep 2012 - Dec 2017

**Bachelor of Engineering (Honors)**

Electronics Engineering (Computer & Networks)

## Skills

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Languages: C++, Python, Rust, HTML, CSS, JavaScript

Technologies: Bootstrp, SQLite, Postgresql, Git, Linux, Windows, MS Office Suite

## Relevant Projects

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**ATAXX-AB**

Edmonton, Alberta

<https://github.com/Amna-A/AB-Ataxx>

winter 2021

Created a two-player console game (ATAXX) in C++ with options for an automated player (AI) using Alpha-beta pruning search algorithm.

**SEARCH-TREES**

Edmonton, Alberta

<https://github.com/ECE520-Project/trees>

Fall 2020

- Collaborated with a team of two developers to create a fast and robust public **Rust** crate that contains utilities for binary search tree, red-black tree, and AVL tree
- This crate has over 180 downloads on crates.io

**GA-SCHEDULER**

Edmonton, Alberta

<https://github.com/Amna-A/GA-Scheduler>

Fall 2020

- Developed a fast and reliable class scheduler for the University of Alberta graduate classes of fall 2020 using **Genetic Algorithms** implemented in **python**.
- Obtained data through web scrapping using beautiful Soup, Requests, JSON, Fiddler

**INFO-KEEPER**

Edmonton, Alberta

<https://github.com/Amna-A/Info-Keeper>

summer 2020

Created a **GUI** in **python** to add, maintain, and edit student data using TKinter and SQL (full stack development)

## Professional Experience

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### Steam Dry Canada

Sales Associate

Edmonton, Alberta

Feb 2020 - Mar 2020

- Assisted an average of 50 customers per day in finding and selecting services that suited their specific needs which have resulted in a total of 30% increase in sales.
- Achieved one of the highest lead generation rates in the region within one month.

### Golden Square Technology

Sales & Marketing Engineer - Business Development

Khartoum, Sudan

Nov 2018 - May 2019

- Improved the company's reputation and increased reach by leading the team representing the company and its international partners in local fairs, and was chosen as the official spokesperson.
- Established and maintained relationships with customers through regular meetings and calls.
- Managed and updated the company's website and social media pages.
- Cooperated with other team members to provide pre-service technical assistance and product education as well as offering technical after service support.

### Sudan University of Science & Technology

Teaching Assistant - College of Engineering

Khartoum, Sudan

Dec 2017 - Nov 2018

Teaching Laboratory courses including course curriculum preparation of:

- Computer Networks (Linux basics, Ubuntu)
- Microcontroller (BASC0M, ATmega series, Proteus Professional)
- Digital Image Processing (MATLAB)
- Microprocessor systems and Assembly language basics.

## Volunteer Work

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### University of Alberta

Student Volunteer

Edmonton, Alberta

Jan 2020 - Aug 2020

- General Volunteer (Students' Union)
- Class Mentor (USchool)
- Image Captioning and analyzing (AirConLab)
- Festival of Undergraduate Research and Creative Activities Research Judge (Students' Union)

### Fresh Routes

Warehouse Volunteer

Edmonton, Alberta

Aug 2020 - Nov 2020

- Assembled Emergency Food

### Sudan University of Science & Technology

Student Advisor

Khartoum, Sudan

Aug 2018

- Directed the process of project's presentation while helping and advising students which lead to multiple students obtaining sponsorships.

## Spoken Languages

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Arabic (Native) - English (IELTS 7) - Korean (Fluent) - Japanese (Conversation) - Spanish (Beginner)