# Amina Eltahir

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## **EDUCATION**

#### **UNIVERSITY OF ALBERTA**

MENG IN ELECTRICAL & COMPUTER ENGINEERING
Apr 2021 | Edmonton, AB

## SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY

BENG IN ELECTRONICS Dec 2017 | Khartoum, SU

## ACADEMIC RESEARCH

#### **GRADUATE**

RECENT DEVELOPMENTS IN MULTI-AGENT PATH-FINDING Research Literature Review.

#### **UNDERGRADUATE**

DESIGN OF A CONTROL SYSTEM OF DIALYSIS MACHINES

Graduation thesis project.

## **SKILLS**

#### **SOFT SKILLS**

communication | Creativity | Leader Attention to details | Growth mindset Critical thinking | Focus mastery

#### **TECHNICAL SKILLS**

proficient with:

Python • C++ • C • Rust • Matlab Javascript • Bootstrap • HTML • CSS Agile • GIT • GIT • GitHub Familiar:

Linux • SQLite • PostgreSQL

## **INTERESTS**

#### **PASSION**

- Machine Learning Heuristic Search
- Data Structures and Algorithms
- Cooking Learning languages

#### **LANGUAGES**

- Arabic (Native)
- English (Fluent IELTS Band 7)
- Korean (Fluent, Self Taught)
- Spanish (Ongoing)
- French (Next interest)

## **WORK EXPERIENCE**

#### STEAM DRY CANADA | SALES ASSOCIATE

Jan 2020 - Apr 2020 | Alberta, Canada

• Achieved one of the highest lead generation rates in the region.

#### GOLDEN SQUARE TECHNOLOGY | SALES & MARKETING ENGINEER

SCI- Nov 2018 - May 2019 | Khartoum, Sudan

- Demonstrated professional communication skills while participating in countless business meetings with local banks and Tech. Companies.
- Represented the company & its partners in local Exhibitions.

## SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY | TEACHING ASSISTANT

Dec 2017 - Nov 2018 | Khartoum, Sudan

Voted one of the best 3 Teaching Assistants by undergraduates in their 5<sup>th</sup> year. Taught Laboratory courses including course curriculum preparation, organize reference materials, Grade examinations, term papers and laboratory reports.

- Computer Networks (Linux basics, Ubunto).
- Micro-controller (BASCOM, ATmega series, Proteus Professional).
- Digital Image Processing (MATLAB).
- Microprocessor systems and Assembly language.

## SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY | TRANSLATOR

Aug 2017 - Sep 2017 | Khartoum, SU

• Technical Arabic to English documents translation and editing as part of the college of engineering's technical translation team for official documents.

## TECHNICAL PROJECTS

### GA-SCHEDULER | GITHUB.COM/AMNA-A/GA-SCHEDULER

**GA-Scheduler** is a University timetable scheduler using Python3 where scheduling is done with Genetic Algorithms. Web Scrapping was performed to get the data from the University of Alberta website (fall 2020).

#### ATAXX-AB | GITHUB.COM/AMNA-A/AB-ATAXX

Ataxx-AB is a 2 player console game that is implemented using c++ with options for manual players or an automated player(AI) using an alpha-beta pruning search algorithm.

#### SEARCH-TREES | GITHUB.COM/ECE520-PROJECT/TREES

I worked with **Hao LI** and **Ke Fang** to create **Search-Trees**, a public rust crate that contains utilities for binary search tree, red-black tree, and AVL tree.

## **VOLUNTEER EXPERIENCE**

2021	General Volunteer	Student's Union, University of Alberta
2020	Warehouse Volunteer	Fresh Routes, Edmonton
2020	Image Captioning Volunteer	AirConLab, University of Alberta
2020	Class Mentor	U school, University of Alberta
2018	Student Advisor	Sudan University of Science and Tech.