

Amina Eltahir

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[amna-a.github.io](https://github.com/amna-a) | linkedin.com/in/amina-eltahir

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 | Khartoum, SU

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

GOLDEN SQUARE TECHNOLOGY | SALES & MARKETING ENGINEER

Nov 2018 - May 2019 | Khartoum, SU

- 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, SU

Voted one of the best 3 Teaching Assistants by undergraduates in their 5th year.

Taught Laboratory courses including course curriculum preparation, organize reference materials, Grade examinations, term papers and laboratory reports.

- Computer Networks (Linux basics, Ubuntu).
- 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](https://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](https://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](https://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.