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
Teamwork

TECHNICAL SKILLS
proficient with:
Python • C++ • C • Rust • Matlab
Javascript • Bootstrap • HTML • CSS
Agile • CRM • GIT • GitHub • Microsoft
Office Suite
Familiar:
Linux • SQLite • PostgreSQL

INTERESTS

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

WORK EXPERIENCE

STEAM DRY CANADA | Sales Associate
Feb 2020 - Mar 2020 | Alberta, Canada
- Achieved one of the highest lead generation rates in the region.

GOLDEN SQUARE TECHNOLOGY | Sales & Marketing Engineer
Nov 2018 - Mar 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 5th 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

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.

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.

VOLUNTEER EXPERIENCE

Year	Role	Organization
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.