

Mohamed Ahmed Gasim

Innovative Software Engineer

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Summary

Highly motivated electrical and electronic engineering student with a strong foundation in software engineering. Seeking a challenging and rewarding opportunity as a Software Engineer to leverage my skills in building innovative and efficient software solutions

Profiles

Mohammed Ahmed

Gasimhacker

Gasimxhacker

Skills

Programming Languages

C, Python, JavaScript, Bash scripting, Java

Database

MySQL, PostgreSQL, SQLAlchemy, Redis, MongoDB

Linux

system administration tasks

Tools

Git, Wireshark, tcpdump, Ettercap, Gdb, CMake

Web Development

HTML5, CSS, Flask, Jinja2, Node.js, Express

Data structures and algorithms

Linked-list, Stack, Queue, Graph, Sorting, Searching

Reverse Engineering

Disassembling and analyzing binary code, Assembly language, Gdb

Soft Skills

Problem-solving, Eager to Learn, Teamwork, Time Management, Decision-making

Projects

alx-files_manager

https://github.com/Gasimhacker/alx-files_manager/

A backend system for file management, supporting file uploads, downloads, and permissions. Built with **Node.js** and **Express.js** for the API, **MongoDB** for data storage, and **Redis** for caching. Designed for efficient file handling and secure user interactions

CI/CD Flask Demo

https://github.com/Obada-Badee/CI_CD_Flask_demo

A demonstration of a CI/CD pipeline for deploying a Flask-based web application. The pipeline automates testing, building, and deployment using **GitHub**, **Jenkins**, and **Docker**. The application is deployed on a secure server configured with **NGINX** as a reverse proxy and **Certbot** for SSL certification. Showcases expertise in automation, continuous delivery, and secure deployment practices

AirBnB Clone

https://github.com/Gasimhacker/AirBnB_clone_v3

Developed a full-stack clone of the popular AirBnB platform. This project involved creating both the backend and frontend components, showcasing the ability to handle complex web applications and demonstrating skills in Python, Flask, HTML, CSS,

Simple Shell

Github

Implemented a Unix-like shell . The project supports built-in and external commands, command-line arguments, and environment variable expansion, highlighting proficiency in systems programming and C.

Monty

Github

Developed a custom interpreter in C for a stack-based programming language. Implemented essential data structures such as stacks and queues to manage program instructions efficiently. Demonstrated strong proficiency in algorithm design and optimization for parsing and executing commands

Education

University Of Khartoum

8.49/10

Ranked in the top 5 out of 90 students.

October 2017 – Present

Bachelor's in Electrical and Electronic Engineering

ALX

August 2023 – October 2024

Software Engineer

Intensive training program covering programming fundamentals, web development, data structures, algorithms, databases, software testing, version control, and more.

Certifications

ALX Software Engineering Certificate

October 10, 2024

ALX Africa 🌐

The ALX Software Engineering Certificate validates the successful completion of an intensive 12-month program covering advanced topics in software development, including data structures, algorithms, web development, system design, and DevOps. The program emphasizes hands-on projects, collaborative learning, and professional readiness, preparing participants for high-impact careers in technology

IEEE member

2023

IEEE UOFK Student Branch

Contributed to IEEE UOFK Student Branch Math Club, organizing events aimed at fostering a love for mathematics among university and high school students.