

KASSAHUN MELAKU

Cyber security researcher and Fullstack developer

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SUMMARY

I have dynamic and versatile profession with a proven experience record in full-stack website development, mobile application development, and cyber security research. Adept at leveraging modern technologies to create efficient and secure digital solutions. Possess strong problem-solving skills and a passion for staying of industry trends. Committed to delivering high-quality results .

EDUCATION AND CERTIFICATES

Bahirdar University

- BSc Degree in computer science
CGPA - 3.72 | 2018 – 2022
- Google Cyber Security
Professional Certificate | 2022
- InfoSec Certificate | 2022

TECHNICAL SKILLS

- Full-stack (MERN) Website Development
- Mobile Application Development
- Cyber Security Research
- HTML, CSS, javascript, React, React Native, NodeJS, TailwindCss
- MySQL, PostgreSQL, MongoDB
- BAAS: Firebase, Supabase
- Secure Coding Practices
- RESTfull API

SOFT SKILLS

- Organizational and time management skills
- Communication and interpersonal skills
- Ability to work independently and as part of a team
- Detail-oriented and able to handle multiple tasks

LANGUAGES

- Amharic- (speak, listen, read & write)
- English - (speak, listen, read & write)

PROFESSIONAL EXPERIENCE

Cyber security researcher

INSA | 2022- Present

- Conducte research on cryptography and secure communication protocols.
- implemente cryptographic algorithms and protocols
- Conducte evaluation of cryptographic algorithms and protocols.

Fullstack web and mobile app developer

Freelancer | 2022- present

- Designe and developpe responsive web and cross-platform mobile apps.
- Integrated Firebase and Supabase for real-time data synchronization, authentication, and cloud storage.
- Collaborately work with clients to meet their needs.

Internship

Bahirdar University | july 2021 - sept 2021

- Engaged in internship program on network administration and computer maintenance.
- Received mentorship from experienced professionals to enhance technical and professional development.
- Conducted computer and network maintenance tasks.

PROJECTS

E-Commerce website

Comprehensive website developed with modern technologies to demonstrate my proficiency in full-stack development.

- Buying and selling products
- Secure user authentication and authorization functionalities using JWT
- Fully functional shopping cart
- Admin panel for managing products, orders, and users

Technologies used:

- Frontend: React.js, Tailwind CSS
- Backend: Node.js
- Database: MongoDB

Dating mobile application

Cross platform mobile app to showcased my proficiency in mobile app development.

- user-friendly and cross platform
- connect with potential romantic partners
- Real-time Chat
- Location-based Matching:
- Swipe-based Interaction

Technologies used:

- Frontend: React Native
- Backend as a service: Firebase
- Database: MongoDB

Messenger Mobile App And Website

The messenger website and mobile app project to demonstrate my proficiency in full-stack web and mobile app development.

- Real-time chat
- secured authentication
- Fully responsive

Technologies used:

- Mobile app: React Native
- web app: React, Tailwind css
- Backend as a service: Supabase
- Database: MongoDB

Information Encryption System

I contribute to research and development for secure cryptographic algorithms.

- developed with Advanced Encryption Standard (AES) algorithm.
- Aimed achieving confidentiality for sensitive information

Secured Communication Protocol Design and Development

- Design and development of a secured communication protocol
- Ensure information confidentiality, integrity, and authentication for sensitive data .
- used industry-standard cryptographic algorithms, AES for confidentiality, RSA digital signatures for authentication, and SHA-256 for data integrity,

REFERENCE

1. **Gizachew Haylie**- Cyber security researche team leader at INSA

Phone number:- +251912689889

2. **Dagim Awulachew**:- Web and mobile app developer at Nib international bank.

Phone number:- +251901492213

3. **Daniel Merkebu**:- Cyber security researcher and front-end developer

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CONTACTS

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