Abdi Desalegn

Developer/Research Enthusiast

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Profile

Passionate Computer Science and Engineering graduate with strong expertise in **mobile development (React Native), MERN full-stack web development**, and **computational physics using machine learning tools**. Seeking opportunities to apply technical skills to innovative projects that bridge science, engineering, and software solutions.

Certificates

ude.my/UC-7d9eb0c3-8b08-4495-9b4a-fd89d112cb13
Ultimate Ethical Hacking from Zero To Hero

ude.my/UC-10abe61e-5a36-4eeb-9882-ff12bebc0d46
Python for Deep Learning: Build Neural Networks in Python

ude.my/UC-e4b3b248-5308-462a-bdc9-13975c0bb0d5
Digital Forensics Masterclass: Forensic Science 2023 DFMC+

Education

Computer Science And Engineering, *Electrical and Computing School / Adama Science And Technology University*

2021 – 2025 | Adama, Ethiopia

Skills

Programming & Development:
JavaScript (ES6+), React Native, React.js, Node.js, Express.js, MongoDB, Python

Machine Learning & Physics:
Computational Physics, Data Analysis, Machine Learning libraries (NumPy, TensorFlow/PyTorch basics, SciPy)

Full-Stack Development:
MERN stack (MongoDB, Express, React, Node)

Tools & Platforms
- **Development Environments:** VS Code, Anaconda, Expo (for mobile apps)
- **Version Control & Collaboration:** Git, GitHub
- **Databases:** MongoDB, MySQL
- **Mobile Development:** Expo, React Native CLI
- **Cybersecurity Tools:** Wireshark, Nmap, Metasploit (basics), Burp Suite (basics), Kali Linux utilities
- **Others:** Postman (API testing), Linux/Unix terminal, Docker (basics)

Interests

- Chess
- music

- Reading scientific publications and keeping up with new research
- Reading

- Documentaries

Organisations

Fincha Sugar Factory,   2024 – 2025
Intern Developer/ System Admin
- Converted, updated, and maintained a **20+ year-old COBOL-based financial system**.
- Ensured system reliability and continuity while modernizing key components.
- Performed debugging, testing, and optimization for critical financial operations.

INSA, *cyber Talent as AV developer*   2022 – 2023
- Worked on developing and testing **antivirus (AV) solutions in C.**
- Implemented detection mechanisms for malware and security threats.
- Gained hands-on experience with **firewall operations and configuration on Linux systems**.

Competitive Programming Division (CPD)
- Participated in university-level competitive programming contests representing ASTU.
- Solved algorithmic and computational problems using C++ and Python.
- Enhanced skills in problem solving, data structures, and algorithm design.

Cybersecurity Division – Adama Science and Technology University (ASTU) 2024 – 2025

- Participated in university **cybersecurity team activities**, gaining hands-on experience and deepening knowledge in security practices.
- Contributed to organizing and playing **CTF (Capture The Flag) competitions**.
- Delivered and assisted in **seminars and workshops** on cybersecurity topics.
- Learned advanced skills in **network security, system hardening, and practical cybersecurity tools**.

Projects

Legacy System Modernization Developer (Ongoing)   2025 – Present
- Working on converting an **old 20+ year COBOL-based financial system** into a **modern Python-based GUI application**.
- Transforming and migrating legacy data to the new system while ensuring accuracy and integrity.

Student Productivity Hub, *Your*   2025
ultimate platform to boost academic performance and manage tasks efficiently.

The Art of Deception Social Engineering, *Seminar Presented by me* ⎔
- **social engineering attacks** and strategies to prevent online exploitation.

Mobile App Development (Ongoing)   2025 – Present
- Actively developing **React Native mobile applications**.
- Publishing personal projects on **GitHub** to track progress and showcase technical skills.
- Preparing to **release apps on Google Play Store** soon.
- Focused on clean UI/UX, performance optimization, and integrating modern mobile features.