HAMZA ASRAR

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EDUCATION

WERABE UNIVERSITY

B.S. in Computer Science

- Coursework: Web Programming, Computer Graphics, Artificial Intelligence, Database Systems, Data Structures & Algorithms.

PROJECT MERCY COMPUTER SCIENCE DEPARTMENT *Butajira, Ethiopia*

Summer Professional Development Program

- Focus: Systems Thinking, AI Suite Application, Software Engineering Practices, Professional Story Bank & Portfolio Development.

EXPERIENCE & PROJECTS

PROJECT MERCY COMPUTER SCIENCE DEPARTMENT *Butajira, Ethiopia*

Participant – Professional Development Program *July 2026 – August 2026*

- Engaged in an intensive 5-week software and professional development curriculum focused on systems thinking, building technical workflows, and career positioning.
- Designed and published a personalized professional portfolio website alongside a structured story bank to document engineering achievements and project impacts.

WERABE HOSPITAL *Werabe, Ethiopia*

Full-Stack Web Developer (Academic Project)

- Designed and built a role-based Pharmacy Management System using PHP and MySQL to streamline pharmacy workflow and inventory operations.
- Integrated customized dashboards tailored for Administrator, Pharmacist, and Cashier roles, enforcing strict security controls and data access management.

COMPUTER GRAPHICS LAB *Werabe University*

Software Developer (Academic Project)

- Programmed an interactive Traffic Light Simulation application using C++ and OpenGL to model real-time urban traffic signaling logic.
- Implemented core computer graphics concepts and rendering techniques to demonstrate system performance under varying time-based constraints.

SKILLS & INTERESTS

- ***Technical Skills:*** C/C++, PHP, MySQL, HTML/CSS, JavaScript, OpenGL, Python, Git/GitHub, Systems Thinking, Generative AI (Gemini, ChatGPT, Claude, xAI).
- ***Languages:*** English (Conversational), Amharic.
- ***Interests:*** Solo Portrait Photography, Reading, Football / Soccer (Manchester United supporter), TikTok Content Creation.