

# Amanuel Merara

## Software Engineer

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### PROFILE

I'm Amanuel Merara, a third-year Software Engineering student at Adama Science and Technology University. Passionate about algorithms, data structures, and problem-solving. I enjoy tackling complex challenges and creating scalable, real-world solutions through continuous learning and collaboration.

### EDUCATION

#### Bachelor of Science in Software Engineering

Adama Science and Technology University [🔗](#)

February 2023 –

June 2027

Adama, Ethiopia

### SKILLS

#### Programming Languages

Python, C++, Java, JavaScript

#### Frameworks/Libraries

React.js, Node.js, Express.js

#### Databases

MySQL, MongoDB

#### Version Control

Git, Github

### LANGUAGES

Amharic



Oromic



English



### PROJECTS

#### Library Management System [🔗](#)

- ♦ **Technologies Used:** Java, Servlets, JSP, MySQL, HTML/CSS, MVC Architecture
- ♦ **Designed & Developed** a full-stack **Library Management System** to streamline book lending, returns, and inventory tracking.
- ♦ **Implemented Role-Based Authentication**, allowing librarians and users to have different access levels.
- ♦ **Optimized Search & Filtering** for quick book retrieval based on title, author, or category.
- ♦ **Integrated CRUD Operations**, enabling efficient book and user management.
- ♦ **Ensured Data Security** with input validation and SQL query optimization.

#### Bank Management System [🔗](#)

- ♦ **Technologies Used:** C++, File Handling, OOP, Data Structures
- ♦ **Developed** a **C++-based Bank Management System** for handling customer accounts, transactions, and balance inquiries.
- ♦ **Implemented Core Banking Features**, including **account creation, deposits, withdrawals, balance checks, and account deletion.**
- ♦ **Utilized File Handling** for persistent data storage, ensuring account details are securely saved and retrieved.
- ♦ **Applied Object-Oriented Programming (OOP)** principles for structuring account management and transaction processing.
- ♦ **Designed an Interactive CLI Interface** with **menu-driven navigation** for smooth user experience.
- ♦ **Optimized Performance** by using efficient data structures and streamlined input validation.