


## Biniam Emsshaw

Debre Berhan University – BSc in Computer Science

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### 1. Professional Summary

Computer Science student at Debre Berhan University with strong interest in backend development using Spring Boot. Experienced in building RESTful APIs, database-driven applications, and real-time systems. Passionate about writing clean, maintainable, and scalable code while continuously improving problem-solving and system design skills.

### 2. Technical Skills

- **Programming Languages:** Java, Python, JavaScript
- **Backend Development:** Spring Boot, Spring MVC, JPA, Hibernate, RESTful APIs, WebSocket
- **Databases:** MySQL
- **Tools & Technologies:** Git, Maven, Postman, Eclipse IDEA, VS Code
- **Core Concepts:** Object-Oriented Programming (OOP), Data Structures & Algorithms, System Design Basics

### 3. Projects

#### E-Commerce Backend System

*Spring Boot · JPA · MySQL · REST API*

- Developed RESTful APIs for product and category management
- Implemented CRUD operations using JPA and MySQL
- Added validation and structured error handling

#### Real-Time Chat Application

*Spring Boot · WebSocket · JavaScript*

- Built real-time bidirectional communication using WebSocket
- Implemented multiple chat room support
- Enabled message broadcasting and basic user presence tracking

## **Student Grading System**

*Core Java · OOP · File I/O*

- Designed GPA calculation logic using Java streams
- Applied clean OOP principles and modular design
- Implemented file handling for persistent student records

## **4. Education**

### **Debre Berhan University**

Bachelor of Science in Computer Science

Expected Graduation: 2019 EC