



Habtamu Bitew Gashu

FULL STACK DEVELOPER

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LOCATION

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Habtamu Bitew Gashu

Full Stack Developer & Fintech Engineer · Etta Solutions Plc

Full Stack Developer at Etta Solutions Plc specializing in fintech payment systems using ISO 8583 and SPDH banking protocols for card-based POS integrations. Proficient in Java, PHP/Laravel, Angular, and Android development. Proven track record building multi-role enterprise systems — including a Prison Management System with 186 commits, Docker deployment, and 3 external forks. BSc in Software Engineering, Wachemo University (2025).

WORK EXPERIENCE

Full Stack Developer

CURRENT

2025 – Present

Etta Solutions Plc

Addis Ababa, Ethiopia

- Building POS payment integration systems using **ISO 8583** financial messaging protocol and **SPDH** banking protocol for card-based transactions
- Implementing Java TCP/IP socket communication between POS terminals and payment switches
- Handling authorization (0200/0210), reversal (0400), and settlement message flows with bitmap parsing and DE1–DE128 field mapping
- Integrating card payment workflows compliant with acquiring bank standards

Java

ISO 8583

SPDH Protocol

TCP/IP

POS Integration

Card Payments

Software Developer Intern

Apr 2024 – Jul 2024

Bahir Dar University

Bahir Dar, Ethiopia

- Developed Clearance Management System digitizing staff/student offboarding with multi-role approval chains, email notifications, and PDF generation
- Built Library Management System using Laravel and MySQL; collaborated directly with stakeholders to gather requirements

Laravel

PHP

MySQL

Blade

Independent Security Researcher

2024 – 2025

Self-Directed

- Conducted authorized vulnerability assessments on controlled web applications; identified SQL injection vulnerabilities across 7 systems
- Provided mitigation recommendations: parameterized queries, input validation, ORM adoption

SKILLS

FINTECH & PROTOCOLS

ISO 8583

SPDH

POS Integration

TCP/IP Sockets

Card Payments

BACKEND

Java

PHP

Laravel

MySQL

Docker

REST APIs

FRONTEND

Angular 8

TypeScript

JavaScript

HTML5

CSS3

Tailwind

MOBILE & EMBEDDED

Android (Java)

C++

Arduino

TOOLS

Git

GitHub

Docker

Linux

Android Studio

IntelliJ

EDUCATION

BSc in Software Engineering

Wachemo University

2020 – 2025

CGPA 3.03 · Exit Exam 77%

LANGUAGES

Amharic — Native

English — Professional

Security Testing

SQL Injection

Vulnerability Assessment

KEY PROJECTS

Prison Info. Management System

[github ↗](#)

LARAVEL

DOCKER

MYSQL

TAILWIND

Multi-role web app (10+ roles) for prison management. 186 commits, Docker deployment, 3 forks.

Clearance Management System

[github ↗](#)

LARAVEL

MYSQL

EMAIL

Institutional clearance workflow system — 21 controllers, multi-step approvals, email notifications.

HR Management System [github ↗](#)

ANGULAR 8

TYPESCRIPT

Full Angular SPA for HR — employees, recruitment, departments, jobs, company, dashboard modules.

Smart Home Embedded System

[github ↗](#)

C++

ARDUINO

RFID

Multi-factor door lock — RFID + PIN, servo motor, LCD, temperature sensor. Full docs + demo video.

Real Estate Management System

[github ↗](#)

JAVA

SWING/AWT

CLIENT-SERVER

Desktop Java application with client-server architecture and rich GUI for property management.

Foodie — Android Food App

[github ↗](#)

ANDROID

JAVA

GRADLE

Android food application in active development. Most recently updated project (Feb 2026).