

Eden Zewdu SOFTWARE ENGINEER


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Education

2023/02 – 2027/06 **Software Engineering**
Addis Ababa University 
Course Completed: Data structure and Algorithms, Object oriented programming, Database

Professional Experience

2024/06 – present **STEM FOR KIDS**
Addis Ababa *Python and Robotics Lecturer*

- Introduce more advanced topics like object-oriented programming (OOP), data structures (lists, sets, dictionaries), and algorithms. and Teach how to program robotic movements, including controlling motors, servos, and stepper motors.

2024/07 – 2024/10 **KalDas Technologies**
Addis Ababa *Back End Developer*

- I built a RESTful API using Django Rest Framework to perform CRUD operations with database integration. and I also Implemented JWT authentication to secure API endpoints and manage user access.

Projects

e-learning site

- A multilingual e-learning platform using Django Rest Framework to learn Ethiopian languages like Amharic, Affan-Oromo, and Tigrinya.
- Implemented CORS headers configuration to prevent cross-origin attacks and input validation to mitigate SQL injection risks.

Amharic to Latin (Phonetic) representation using python

- I Created a Python tool to transliterate Amharic script into Latin phonetics using a JSON mapping.
- I Added error handling to ensure smooth file loading and JSON parsing.

Ethiopian Language Text Processing Using Python

- A text processing for two Ethiopian languages, Amharic and Tigrigna. The main tasks include text cleaning, word and phoneme frequency analysis, and comparison of word and phoneme overlaps between the two languages.
- I use g2p's Sera algorithms to Transcribe Ethiopic text into its phonemes by applying grapheme to phoneme conversion

Skills

Software Development

Javascript, Python, Java, MySQL, UX/UI Design, NodeJs

Data Structure and Algorithm

Problem Solving (100+ leetcode and Codeforce)

Certificates

Course Completion GDSC AAU (Data Structure and Algorithm)
SheCodes (Web Development)

KalDas Technologies
Back End Developer