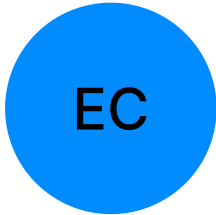


# ESUBALEW CHEKOL

Full-Stack Developer | Telegram Bots | API Integration | Web Scraping Expert

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## EXPERIENCE

### Senior Software Engineer

#### INTAPS

- 06/2025 - Present    Addis Ababa, Ethiopia
- Work as a software Engineer for a very critical software system for large ethiopian city that servers wider ethiopian communitiy
  - Lead development of a mission-critical Cadastre Information System (CIS) serving major Ethiopian cities , supporting land administration and community services.
  - Architect and maintain scalable solutions using ASP.NET, PostgreSQL, and Docker, ensuring reliability and high availability.

### Helder Technolgies

#### Helder Technologies

- 09/2024 - 12/2024    Addis Ababa, Ethiopia
- Specialize in building robust Telegram bots
  - Craft APIs for seamless data integration and communication
  - Develop backend solutions using FastAPI, Django, and Flask
  - Implement deployment automation for efficient workflows
  - Ensure seamless integrations across various platforms and services
  - Create dynamic telegram mini applications using JavaScript

### Software engineer

#### CDIWork

- 01/2024 - Present    Wyoming, United States
- Freelancing
  - Write programming scripts for clients

### JavaScript Developer

#### Crossroads Tech Solutions

- 03/2024 - 06/2024    Addis Ababa, Ethiopia
- Build backends using Node.js to support application functionalities
  - Telegram bot

## EDUCATION

### Bachelor of Science in Information Systems

#### Addis Ababa University

- 06/2024 - 07/2024    Addis Ababa, Ethiopia
- I built my foundational knowledge across multiple areas of computer science, including programming, web development, networking, computer security, mobile and desktop application development, database design, and the basics of data science and AI. I started learning programming with C and C++, and later expanded to Java, JavaScript, and PHP through coursework.
  - I served as a general service representative for the college student council.
  - I worked as the vice president of the Ethics and Anti-Corruption Club.

### Master of Science in Artificial intelligence

#### Addis Ababa University

- 11/2024 - Present    Location
- I am studying Artificial Intelligence, covering areas such as Machine Learning (ML), Deep Learning (DL), Computer Vision (CV), Natural Language Processing (NLP), robotics, advanced data structures and algorithms, probabilistic graphical models, and topics like AI fairness.

## SUMMARY

Full-Stack Developer with expertise in Python, Rust, and C#, specializing in building scalable web applications and developing AI-driven solutions. Proven track record in designing and implementing robust systems for land administration and community services. Adept at API integration, web scraping, and automating deployment workflows. Currently advancing knowledge in Artificial Intelligence to deliver cutting-edge machine learning and natural language processing applications.

## KEY ACHIEVEMENTS

- Winner – 12-Hour Hackathon (School Hosted)**
- Ranked **1st place** in a **12-hour university hackathon**, developing the best project within limited time.

- 3rd Place – Ethiopian Data Science Regional Hackathon 2025**
- Project:** Developed a lightweight image classification model to prioritize high-value satellite images for transmission, optimizing bandwidth usage in CubeSat missions.
- Outcome:** Achieved 99.995% classification accuracy, balancing model size and inference speed within tight constraints.

## LANGUAGES

**Amharic** Native

**English** Advanced

## SKILLS

C#	Django	Flask	Git
JavaScript	PostgreSQL	Python	
TypeScript	Web Scraping	Node.js	
Rust	AI	FastAPI	

## FIND ME ONLINE

**Linkedin**  
https://www.linkedin.com/in/esubaalew/

**Github**  
https://github.com/esubaalew

**Portfolio**  
http://esubalew.et

## PROJECTS

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### britannica-dictionary

📅 08/2024 - Present 📍 Global

britannica-dictionary is a Python package is a web-scraping tool for the Britannica Dictionary

- What was a successful outcome of your work?  
(e.g. Raised \$3,000 for the charity)
- 

### teleinsight

📅 12/2024 📍 Global

TeleInsight is an open-source web application designed for analyzing Telegram chat data.

- What was a successful outcome of your work?  
(e.g. Raised \$3,000 for the charity)
- 

### Modern Dictionary

#### Dashboard[@MeaningRobot on telegram]

📅 Date period 📍 Global

Developed a modern dashboard that aggregates content from **Britannica** and **Merriam-Webster** into a single, unified interface for easy access and search.

#### Web & API Interfaces:

- **Web UI:** [d.esubalew.et](https://d.esubalew.et)
  - **API Interface:** [da.esubalew.et](https://da.esubalew.et)
  - What was a successful outcome of your work?  
(e.g. Raised \$3,000 for the charity)
- 

### Emotion Classification from Telegram Chat, Sentiment Analysis

📅 Date period 📍 Global

Trained custom AI model to classify emotions from Telegram chat messages in real-time.

- The initial plan is to compare BERT, conventional ML, and DL approaches.
  - made @CampusRobot for demo
- 

### GUADE AI

📅 Date period 📍 Location

An AI-based assistant for exams, interviews, and learning to code, providing questions and support.

- Demo is at [guade.esubalew.et](https://guade.esubalew.et)