

Abel Tesfaye Korme

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[Leetcode](#) | [Github](#) | [LinkedIn](#)

Competitive programmer and software engineer with 2 years of experience in building and maintaining large-scale distributed systems. Proven ability to design, implement and test complex software solutions.

PROFESSIONAL EXPERIENCE

Google Research

Software Engineer

Accra, GH

March 2022–Present

- Designed and co-implemented my team's ML inference pipeline that takes in tens of PetaBytes of satellite imagery of the whole world and runs a super resolution segmentation model to identify buildings, fields and roads from satellite data
- Responsible for the distributed large scale inference and public release of our Open Buildings V3 dataset where I ran our segmentation only model on ~30PB of 50cm imagery covering 64% of the global south and getting the dataset released which made 1.8B building detections available for public use and 900M available in Google Maps
- Debugged and optimized our super-resolution training pipeline, resulting in a 250% increase in training speed.

VideoLAN

Google Summer of Code Developer

Remote, Addis Ababa, ET

May 2019–September 2019

- Contributed significantly to the VLC Qt interface for VLC for Desktop (Version 4.0 Otto Chriek), ensuring feature compliance with the older interface.
- Focused on improving the Video and Internet tabs, enhancing functionalities related to videos, shows, camera roll, radios, and podcasts.
- Developed Qt models in C++ to facilitate data transfer between VLC components and created UI components using QML.

EDUCATION

ADDIS ABABA UNIVERSITY

Bachelor of Science in Computer Science,
GPA: 3.90/4.0
Ranked 1st from my department

Addis Ababa, ET

October 2021

PROJECTS

DINGO - <https://github.com/AbelTesfaye/dingo>

Founder and maintainer for dingo, a free and open-source music video streaming app that allows users to discover and play new music - **React, React Native, Android**

Addis Ababa, ET

November 2017–February 2018

G12 MATRIC - <https://github.com/AbelTesfaye/G12Matric>

Co-founder and engineer for G12 Matric, An open source gamified exam-prep app that has helped over 100,000 students prepare for their 12th Grade Ethiopian national exams - **Android, Java, SQLite, Python**

Addis Ababa, ET

September 2015–October 2017

ADDITIONAL SKILLS

C++ ; C ; JavaScript ; Typescript ; React ; React Native ; Java ; Python ; PHP ; SQL ; QML ; Qt ; Code::Blocks ; CLion ; Android Studio ; Eclipse ; IDLE ; PyCharm ; Git ; Qt Creator ; Workbench ; VSCode ; Machine Learning ; Apache Beam ; Earth Engine ; Large scale distributed systems

ACHIEVEMENTS AND AWARDS

Winner on 2018 African Robot Soccer Competition - Organized by ICogLabs with the Ethiopian Ministry of Science and Technology

Winner on Google Developers Group Addis 2018 Hackathon - Organized by GDG Addis with the US Embassy in Ethiopia