Yiheyis Tamir Ayalew *Software Engineer*

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PROFESSIONAL SUMMARY

Software Engineer with experience in backend and mobile development. Built APIs with Go and Node.js using Clean Architecture, and developed mobile apps using Flutter with contributions to production-ready systems. Completed advanced algorithm training with Africa to Silicon Valley inorder to strengthening problem-solving skills.

EDUCATION

B.Sc. in Software Engineering 05/2022 – 08/2027 | Addis Ababa
Addis Ababa Science and Technology University
- Achieved CGPA of **3.87/4.0.**
- Completed coursework in Data Structures and Algorithms, Fundamentals of Programming, Database Systems, Object-Oriented Programming, Computer Organization and Architecture, and System Analysis and Modeling.

Code Academy 01/2025 – 11/2025 | Addis Ababa
Africa to Silicon Valley (A2SV)- Backed By Google
- Learned advanced algorithms, including graph, tree, and memoization-based techniques, solving over 600 LeetCode and Codeforces problems to enhance coding efficiency.

PROFESSIONAL EXPERIENCE

Software Engineering Intern 07/2025 – 09/2025 | Addis Ababa
Eskalate LLC

Backend Intern — Blog App
- Built 30+ REST API endpoints in Go with Gin to power blog content creation, search, and AI-assisted recommendations, enabling efficient content management for writers and readers.
- Applied Clean Architecture to structure a multi-layered codebase, improving scalability and easing feature integration for future developers, and created over 20 interface mocks and unit tests to improve reliability and maintainability.

Backend Intern — MenuMate App (Menu Digitalizer)
- Produced 65+ Go backend APIs to connect Flutter mobile and React clients, creating a unified ecosystem for restaurants and customers.
- Introduced OCR to digitize physical menus, transforming static menu images into searchable, structured digital data for easier customer access.

PROJECTS

Disease Prediction & Medical Recommendation System 03/2025 – 07/2025
Python, Flask, Scikit-learn, Pandas, NumPy, HTML5, CSS3, Bootstrap, JavaScript
- Built a machine learning web app using Random Forest, SVM, and Gradient Boosting to predict 41 diseases from 132 symptoms, based on Kaggle healthcare datasets.
- Consolidated over 250 workout suggestions and 400+ diet plans to provide lifestyle-based medical guidance.
- Designed a dashboard to track model performance, visualize disease trends, and explore symptom–disease relationships across multiple patient profiles.

Smart Helmet – Safety & Health Monitoring System 10/2024 – 02/2025
Integrated Engineering Project, IoT, Embedded Systems, Emergency Alert System
- Transformed a wearable IoT helmet that monitors heart rate, oxygen levels, and body temperature in real time, with automated alerts for anomalies to support safer transport and healthier communities (aligned with **SDG 3** and **SDG 11**).
- Integrated IoT sensors with a microcontroller for continuous monitoring and wireless data transmission to connected devices.
- Conducted three rounds of simulated and field testing to improve sensor reliability, minimize false alerts, and validate system performance.

Virtual Home Rental APP 10/2023 – 04/2024
Flutter, Firebase, Google Maps, 3D Viewer
- Crafted a mobile application that helps users search and explore rental properties, featuring 3D panoramic views and Google-Maps integration with distance-based filters (1–5 km).
- Unified Firebase Firestore to provide real-time property listings and updates, ensuring smooth search-to-booking workflows tested by early users.
- Implemented secure authentication with Firebase Auth and Included payment features to protect user data and manage transactions across 150+ property listings.

ACHIEVEMENTS

- Secured 2nd place at the Hackatom Hackathon (hosted by a Russian university) by crafting a Flutter/Dart mobile app and website to promote nuclear energy awareness, standing out among international competitors.

SKILLS

Programming Language — Go, Dart, Java, Python, JavaScript (Node.js), SQL | **Frameworks & Tools** — Flutter, Express, Firebase, MongoDB, Appwrite | **Version Control** — Git, GitHub