Ararsa Derese

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EDUCATION

BSc. in Software Engineering, *Addis Ababa Science and Technology University* 🔗   06/2020 – 01/2026 | Addis Ababa, Ethiopia
Relevant Coursework: Distributed System, Advanced Programming, Operating System, Object-Oriented Programming, Machine Learning, Embedded system, Computer System Security

Coding Academy, *Africa to Silicon valley | A2SV - Backed By Google* 🔗   11/2023 – 11/2024 | Addis Ababa, Ethiopia
- A2SV graduate with a strong foundation in data structures and algorithms (Solved 900+ problems on LeetCode and Codeforces) and hands-on experience in software development

PROFESSIONAL EXPERIENCE

Eskalate LLC, *Software Developer Intern*   07/2024 – 09/2024 | Addis Ababa, Ethiopia
- Led a team of four developers to design and implement a starter project using **Golang** and the **Gin framework**, creating scalable RESTful APIs as part of a learning initiative.
- Built and integrated authentication mechanisms using **JWT** and **OAuth**, improving user login times by 15% while gaining practical experience with secure user authentication.
- Mentored team members through code reviews and discussions on clean architecture, establishing best practices and enhancing the project's maintainability.

Kifiya financial Technology, *Backend Developer Intern*   10/2023 – 11/2023 | Addis Ababa, Ethiopia
- Developed and maintained RESTful APIs with **Spring Boot** to support payment processing in a microservices architecture, improving system reliability.
- Wrote and executed unit and integration tests using **JUnit** and **Mockito**, cutting production bugs by 10% and boosting platform stability.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, C#, Java, Go | **Frameworks / Libraries:** Django, Gin, Flask, Springboot, .Net |
Databases: Postgres, MySQL, MongoDB | **Tools:** Docker, Unix/Linux, kubernetes

PROJECTS

Pesticide Spraying Machine, *Integrated Engineering Project*   11/2023 – 01/2024
- Led a team of 10 engineers in developing an innovative pesticide spraying machine, ensuring the project was delivered on time and met all requirements.
- Designed and launched a mobile app using **Flutter**, providing users with seamless control and monitoring of the machinery.
- Increased operational efficiency by 25% through real-time data analytics and an intuitive user interface.
- Added real-time monitoring and remote control features, reducing manual intervention by 70% and improving accuracy and reliability by 15%.

Milto Knowledge companion, *Generative AI Hackathon*   07/2023 – 11/2023
- Contributed to the development of Milto Knowledge Companion, a platform that helps students generate quizzes and answer questions based on their study materials.
- Built and managed backend services with **Flask**, integrating AI-driven content generation using existing AI APIs and **LangChain** libraries.
- Implemented secure user authentication with **OAuth 2.0**, reducing security incidents by 10-30% and ensuring compliance with data protection standards.
- Played a key role in the project, which earned a grand finalist position in the "Generative AI for Africa" hackathon, competing against university teams across Africa.

LEADERSHIP & EXTRACURRICULAR

Google Developer Groups, *Django Mentor*   12/2024 – present
- Serve as a Django mentor at Google Developers Group, Addis Ababa Science and Technology University, guiding students in mastering Django for building robust web applications.

AWARDS

Grand Finalist and Gold Medalist, A2SV Generative AI Hackathon 🔗   11/2023

CERTIFICATES

DevOps for Web Development 🔗   **ALX AiCE - AI Career Essentials** 🔗