

PHILIMON D. AYALEW

VEGESACKER STRASSE 89, BREMEN, GERMANY



Education

Bremen **Computer Science - BSc.**, *Constructor University Bremen*

Sep 2022- Jun 2026

Remote **Software Engineering Program**, *ALX Holberton*

Jan 2021 - Feb 2022

CU Courses: Algorithms & Data Structures | Operating Systems | Programming in C & C++ | Automata | Computer Vision..

ALX Courses: System Design & DevOps, Backend development, Infrastructure Development, Foundational Software Engineering..

Experience

Constructor University, Bremen, Germany | Teaching Assistant for Intro to Python

Sep 2024 - Jan 2025

- Served as a Teaching Assistant for Intro to Python, mentoring over 70 students through weekly tutorials, one-on-one support, and complex programming assignments.
- Delivered personalized tutoring sessions to assist students with Python fundamentals, algorithms, and debugging.

Everest Systems GmbH, Remote | Software Developer, Working Student

Feb 2023 - Nov 2024

- Developed and optimized the platform's Authentication System, contributing over **50%** of its functionality, enhancing security and user access by streamlining authentication.
- Restructured the platform's page rendering by integrating a presentation layer, improving data fetching and rendering efficiency by **30%**, enhancing user experience.
- Collaborated with an external team to integrate a proprietary validation language to our authentication system, allowing for verbose condition enforcement. This enhancement resulted in a **25%** increase in condition usage across the system.
- Boosted the authorization system's test coverage by **90%** using jest, improving system reliability and reducing manual testing efforts by **50%**.

Google Developer Student Club, Bremen, Germany | Technical Lead

Sep 2022 - Jun 2023

- Led student project preparation for Google Challenges, managing a team and incorporating **TDD** principles into the development of a full-stack web application, which qualified for the Hult Prize Global Semi-Finals in Tunis.

The Room/ALX, Remote | Software Engineering Technical Mentor

Aug 2022 - Feb 2023

- Taught and mentored over **1000+** students from across Africa in software engineering, delivering lectures, leading hands-on workshops, and providing guidance on key topics..
- Successfully certified over **250** students, increasing certification rates by **30%** through personalized mentoring, rigorous assessments, and targeted feedback.
- Developed a Slack bot using **TypeScript** and the **Slack API** to streamline certification handover, perform plagiarism checks, and answer general inquiries for over **1000+** students.

Projects

SoftRenderer |

Aug 2024 - Present

3D rendering engine implemented in pure C | Used: **C**, **.NET**

- 3D renderer that supports both **Rasterization** and **Ray Tracing** rendering techniques.
- Written completely from scratch with little to no external libraries used.

grubOn |

Feb 2024

A bite-sized solution to a global problem. | Used: **Flutter**, **Firebase**, **Tensorflow**, and **Google Maps**

- Grub On is your gateway to reducing food waste and fostering community connections.
- Global 100 finalist in the 2024 Google Solution Challenge.

Skills

Programming Languages: C#, C/C++, Typescript, Python, dart

FrameWork/Libraries: .NET, Flutter, Next.js, Vue.js, Robot Framework, PyTest, Selenium

Languages: English (**C2**), German(**A2**)

Others: Firebase, Python (TensorFlow, Keras, Pandas), PostgreSQL, Git, Nginx, TDD