



Yonathan Wagaye

Bachelor of Arts in Computer Science

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GitHub Profile

LinkedIn Profile

EDUCATION

• NYU Abu Dhabi

2021 - Present

Computer Science Major with a minor in Applied Mathematics

Relevant coursework:

- Introduction to Computer Science, Discrete Mathematics, Data Structures, Algorithms, Computer System Organization, Software Engineering
- Calculus, Multi-Variable Calculus, Linear Algebra, Probability and Statistics

• Cruise School

2016 -2020

Secondary School, Addis Ababa, Ethiopia

WORK EXPERIENCE

• Center for Quantum and Topological Systems NYU Abu Dhabi

May 2023 - Present

Research Intern

- Working on Cubical Homotopy Type Theory for Quantum Systems

PERSONAL PROJECTS

– Med+

March 2023 - May 2023

A mobile app to search for medical products from Pharmacies (Member of the developer team)

- * In collaboration with three other team members, built an app that allows users to efficiently look for the cheapest medical products from pharmacies using a full software development near their location for a software engineering class project
- * used Agile process model, Design patterns, and GRASP principles
- * Tools & technologies used: Dart, Flutter, Firebase

– Flappy Bird

May 2023

Video Game

- * Created the famous Flappy Bird video game with a full user interface
- * Tools & technologies used: Unity3D, C#

– Terminal Based Projects

August 2021- May 2022

Applications that run on the Unix terminal for different courses

- * Using Python, created a relational database management system that runs on the terminal and supports selection, projection, and group by operations.
- * Using C++, created a fitness management system, and a flight management system for my data structures class using binary search trees, hash tables, stacks, heaps, and other data structures
- * Tools & technologies used: Python, C++

TECHNICAL SKILLS AND INTERESTS

Languages: Python, C, C++, Dart, JavaScript, TypeScript, HTML and CSS, SQL, Assembly, English, Amharic,

Developer Tools: Git and GitHub, Tableau, Trifecta, Microsoft, and Google Products, Unix OS Commands

Frameworks: Flutter, Django

Cloud/Databases: Firebase, MongoDB, MySQL

Skills: Agile, Design Patterns, UML modeling, GRASP principles

Areas of Interest: Quantum Computing, Mobile App Development, Machine Learning and AI, Algorithms and Problems Solving

ACHIEVEMENTS

–Hack My Robot

August 2022 - November 2022

Cyber-security competition hosted by NYU Abu Dhabi

- * Secured fourth place in a robotics competition that spanned the entire MENA (Middle East and North Africa) region, which challenged participants to exploit a robot running on ROS Noetic system.