Placide Shema

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EDUCATION

Tufts University, Medford, MA   **Graduating May 2027**

- **Major:** Computer Science   **Minors:** Mathematics   **GPA**: 3.4/4.0
- Student's Representative in Tufts Advancement Office 2023-Present
- Tufts Wiki_editing Project (Editing Wikipedia for the Under_represented Faculty Members.

Relevant Coursework: Data Structures in C++, Web Programming, Discrete Math, Calc 2 & 1, Physics 11

WORK EXPERIENCE

Founder, Jackal Tech Ltd (Part-time, Remote)   **Sept 2022– Present**

- Led partnerships with Afribot Robotics, ASYV School, and Nuvision High School to introduce and implement a cutting-edge robotics program in Rwanda Website

- Designed and coordinated a summer internship program and guided interns in the development of three projects—Jackal Care, Typing Master, and Jackal Health Services—hosted on Jackal Tech's Private GitHub

Facilitator, Python Programming (Part-time, Remote) | Agahozo Shalom   **Sept 2022-2023**

- Guided over 30 students in learning graphical Python programming using the CMU CS Academy platform, aligned with Carnegie Mellon's CS1 curriculum Platform

- Provided one-on-one mentorship, assisting students with troubleshooting, debugging, and mastering key Python concepts through project-based learning

CMU CS Academy Alumnus | Carnegie Mellon's University   **Jan 2019-2022**

- Completed four years of coursework in Carnegie Mellon University's CS1 curriculum during high school, focusing on graphical Python programming and computational thinking

- Developed a strong foundation in problem-solving, algorithm design, and coding efficiency through hands-on projects and graphical Python applications

PROJECTS

Global Chat (JumboHack) | HTML &CSS, JavaScript, Google Translate API, Node.js, SvelteKit, Firebase

- Developed a dynamic virtual platform using SvelteKit and Firebase, enabling real-time multilingual communication and fostering cultural exchange among students worldwide JumboHack

- Led the design of the chat user interface and organized the project structure, facilitating an intuitive user experience that encourages international collaboration and cultural exchange GitHub

Rocket, Calculator & RwandAir Animation | Python Programming

- Developed an award-winning graphical Python simulation of a satellite in motion as well as RwandAir animation, ranked first among 2,500 students worldwide in 2021 at CMU CS Academy Rocket RwandAir

- Developed a drawn calculator in Python on the CMU platform with a clear operation arrangement Calc

Proj_Zap | C++ programming

- Built the "Gerp" program for word search in directories using hash tables, tries, and DFS, with support for case-sensitive searches and optimized memory usage

LANGUAGES AND SKILLS

Languages: C/C++, Python, JavaScript, Java,

Technical Skills: Python Graphical Game development, Data Structure

Soft Skills: Communication, Collaboration, Problem-solving, Adaptability, Curiosity