DAMILOLA AINA

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Career Profile

A dynamic and result oriented second-year Computer Engineering student – pursuing two minors in Engineering Business and Artificial Intelligence – at the University of Toronto, with a robust background in various technologies including Python, C++, HTML, CSS, JavaScript, SOLIDWORKS, and System Verilog with FPGA integration (De1-SoC board). Fueled by a passion for web development and software engineering, I'm excited to broaden my skills and make impactful contributions to innovative projects in your organization

Technical and Professional Skills

Programming languages | SOLIDWORKS & Video editing | Microsoft Office & Project Management | Leadership & Collaboration | Attention to details | Time-management skills| Organizational & Teamwork skills | Excellent customer relations | Ability to adapt and multi-task | Excellent oral & communication written skills

Education

University of Toronto **Sept 2022 – May 2027 (expected)**

Bachelor of Applied Science in Computer Engineering + PEY Co-op

Projects

Online Website Portfolio **Jan 2024 – Present**

- Utilized HTML, CSS and JavaScript to create a visual appealing website portfolio
- Problem Solved using Web Browser Console

Space Dog | UTRA Hacks 2024 **Jan 2024 – Jan 2024**

- Designed parts of the chassis utilizing precision measurements and SOLIDWORKS
- Applied C++ and its Arduino framework to create a motor with PWM functionality
- Use of wire, breadboards and other resistive elements to form a cohesive circuit
- Soldered detached wires to motor terminals, guaranteeing reliability and durability
- Fostered effective collaboration to ensure peak utilization of our limited timeframe

FPGA Memory Game **Sep 2023 – Dec 2023**

- Utilized Verilog Hardware Description Language (HDL) in conjunction with Quartus Prime, seamlessly integrating PS/2 keyboards and mice into our project

- Usage of on-chip memory within the De1-SoC FPGA board allowing both storage and extraction of data while in different modes
- Utilization of Finite State Machines (FSMs) and Clock Crossing within the Datapath, Control Path, Memory, and PS/2 adapters to extract data and organize execution flow

World-le **Apr 2022 – May 2022**

- Employed the TKinter embedded library to create the Graphic user Interface of the game
- Utilization of Python 3.10.2 to properly compare input with dictionaries and text files

Work Experience and Volunteer

Prototype Division – Structural Team Member **Sep 2023 - Present**

University of Toronto Super Mileage, Toronto ON, Canada

- Applied SOLIDWORKS for Seamless Part Design, Culminating in PrusaSlicer Synthesis
- Collaboration with other UTSM members during hands-on work

Camp Instructor **Jun 2021 – Aug 2023**

Pedalheads, Calgary AB, Canada

- Collaboration with other group leaders to encourage visual and interactive learning
- Supervision of children during off-site rides and training classes
- Provision of daily reports and progress checks for better bookkeeping among other instructors and supervisors
- Exhibited leadership by taking charge of other assigned responsibilities while ensuring safety and proper learning

Distribution Volunteer **Jan – Mar 2022**

Calgary Foodbank, Calgary AB, Canada

- Preparation of food hampers while maintaining orderliness and cleanliness
- Sorting various food products based on numerous factors, promoting organization
- Execution of model behaviors to ensure the safety of workers and clients
- Familiarized weekly inventory to ensure proper product distribution among clients

Accomplishments and Awards

High School Valedictorian **June 2022**

Honors Roll with Distinction **June 2022**

Canadian Senior Math Contest (University of Waterloo) **Nov 2021**

Certification and Training

HCS3000 Workplace safety systems Course | Emergency First Aid CPR C and AED Certification | WHMIS Certification