Muhammad Fiaz

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github | linkedin

EDUCATION

University of Alberta	3rd Year, Class of 2024
Software Engineering, BSc (Co-op Program)	*Cumulative GPA: 3.4 / 4.0*

WORK EXPERIENCE

Software Developer   May – September 2021
University of Lethbridge
- Worked as Software Developer for Neurocage Systems Ltd., a ULethbridge spinoff company creating artificial intelligence systems for animal husbandry in rodent homecages
- Specialized in computer vision and machine learning
- Experience building, deploying, and optimizing classic, ML algorithms to estimate homecage state (food levels, water levels, etc)
- Experience developing image processing pipelines and curating datasets

Intern, CSR Department   June – July 2018
NETSOL Technologies Inc.
- Managed financial support program data using Microsoft Excel and Access
- Created presentations to pitch ideas for new company CSR programs
- Designed posters for inter-department use through Photoshop
- Improved department communication efficiency through implementation of IMAP email access

PROJECTS

Albertaloop: Currently Software Team Co-lead. Developing embedded software for train system using ChibiOS (RTOS). Designed and implemented train control systems, including development of motor control and battery management systems.

EpilepSafe: Developed seizure prevention tool for Epilepsy patients using Python and OpenCV. Scans YouTube videos for content with potential of triggering seizures.

Spontifia Online Magazine: Founded a magazine for publishing student-written articles on scientific developments. Developed website using WordPress and manipulated using HTML, PHP, and CSS.

TECHNICAL SKILLS

Software/Tools: Python, SQL, C, C++, Java, OpenCV, Tensorflow, Keras, MATLAB, Git, HTML, Bash, Vivado, VHDL, Flask, Linux, Azure, RTOS
Miscellaneous: Microsoft Office, CANbus, Photoshop

VOLUNTEER EXPERIENCE

Computer Engineering Club, *VP Internal*	2020 - PRESENT
Interdepartmental Science Student Society, *Web Development and Graphic Design Volunteer*	2020
The Grief Directory, *Support Line Volunteer*	2019

ADDITIONAL INFO

Achievements:
- 1st Place – Junior Design, Western Engineering Competition 2021
- 3rd Place - Junior Design, University of Alberta Engineering Competition (UAEC), 2019
- Newbert Construction and Engineering Ltd Entrance Award in Engineering, 2019
- The Faculty of Engineering Gold Standard Scholarship, 2019
- The University of Alberta Gold Standard Scholarship, 2019

Languages: English (Fluent), Urdu (Fluent), French (Beginner)

Miscellaneous:
- Class 5 GDL Driving License
- Willing to relocate

References Available Upon Request