

Musaad Hydary

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I am a computer engineering student with a passion for design and full-stack app development, seeking to contribute to dynamic projects and drive impactful solutions within the artificial intelligence and crypto industries.

Education

Queen's University - Stephen J.R. Smith Faculty of Engineering and Applied Science	2021 - Present
<ul style="list-style-type: none">Bachelor of Applied Science in Computer Engineering and Innovation	

Engineering Experience

Systems Engineer - Queen's AutoDrive Design Team	2023 - Present
<ul style="list-style-type: none">Designed and implemented a robust network bus for relaying messages within an autonomous car's lighting systems using C++Optimized individual lighting components with low-latency data structures to enhance responsiveness of incoming ROS messages	
Software Engineer - Queen's AI Hub	2022 - 2023
<ul style="list-style-type: none">Developed a 3D facial landmark detection model using Python and TensorFlow libraries, enhancing augmented reality applicationsPresented to 200+ students at the Canadian Undergraduate Conference on Artificial Intelligence	
Full Stack Engineer - Queen's Web Developer Club	2022 - 2023
<ul style="list-style-type: none">Designed and deployed a dynamic ReactJS blog with over 100+ readers for a Kingston-based charity	

Projects

RISC Processor Synthesis - ELEC 374 (Digital Systems Engineering)	2024
<ul style="list-style-type: none">Designing and developing the bidirectional bus, ALU units, control circuitry, and I/O ports for a RISC-style CPU utilizing Intel Quartus Prime, Verilog, and ModelSim	
RapidCraft: AI-Powered Resume Generator - QHacks	2024
<ul style="list-style-type: none">Led the full-stack development of a ReactJS app that takes user inputs to generate a LaTeX resume using ChatGPT's API on a NodeJS backend server	
Bookkeeper: Receipt Classifier and Budget Optimizer - QHacks	2023
<ul style="list-style-type: none">Spearheaded the development of a full-stack platform that classifies user's receipts and optimizes their budget using Python optical character recognition, React, Redux, and Firebase	
NFT Wishlist - ETH Toronto Hackathon	2022
<ul style="list-style-type: none">Planned and implemented a full-stack application of an NFT wishlist using React, OpenSea API, Moralis, and MetaMask	

Other Experience

Management and Event Director - Queen's Music Production Club	2022 - Present
<ul style="list-style-type: none">Oversaw the planning of production classes and live studio sessions for 200+ undergraduate students	
Mathematics & English Tutor - Kumon After-School Learning Centre	2019 - 2020
<ul style="list-style-type: none">Cultivated a positive learning environment by grading assignments and delivering personalized instruction for 25+ students, spanning from Kindergarten to Grade 8	

Skills

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- Technical:* TypeScript, JavaScript, Java, C, C++, Python, Assembly, Verilog, CUDA, Arduino, Firebase, Vercel
 - Design:* React, TailwindCSS, Figma, Adobe Photoshop, DaVinci Resolve, SolidWorks, Blender, Cura