Rishi Shah

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EDUCATION London Central Secondary School, London, ON, Canada September 2021 - Present 95% average with Award of Excellence • Accounting and Law Subject Awards **EXPERIENCE** Western University: Machine Learning Researcher April 2024 – Present • Conducting research on adversarial attacks and their effects on machine learning models Developing an adversarial robust machine learning model for computer vision purposes • Hack49 Global: Co-founder June 2024 – Present • Registered Non-Profit Organization hosting a global hackathon designed to teach students coding, teamwork, and problem-solving skills Led logistic and outreach teams, secured partnerships, and organized events for over 950 participants • May 2024 – September 2024 **3D Forge:** Founder and CEO 3D modelling and printing company for croc accessories • Won the Summer Company Award Grant from Ontario Government • Robarts Research Institute: Student Researcher November 2022 – May 2024 Utilized Vuforia and Unity to create computer vision and VR applications based on medical AI problems • Developed neural networks to enhance computer vision for medical imaging • SHAD Alumni at University of New Brunswick: Alumni July 2023 Developed an innovative portable housing solution for emergency relief QSYS – Quantum School for Young Students: Alumni August 2024 Selected to learn quantum physics and computing at University of Waterloo PROJECTS Mental Health Treatment Efficacy Study: 2024 Awards won: 5th place at HOSA Nationals Conducted research examining the effectiveness of mental health treatments, analyzing over 120 patient • interviews and finding a trend of over-reliance on medication without adequate therapy integration Proposed recommendations for a balanced approach involving both therapeutic and pharmaceutical treatments • to improve mental health outcomes From Pixels to Precision: 2023 Awards won: National Bronze; Divisional Gold; Sanofi Biogenius Award Designed a neural network that effectively segments surgical tools from a video of a minimally invasive surgery • performed in the brain. Coded through Python, Keras, and MATLAB **Piezoelectric Wind Machine:** 2022 Awards won: Divisional Silver; Research Western Imagination Prize Created an alternative to windmills as windmills hurt nearby habitats • Used tree vibrations to create electricity via piezoelectric sensors • **COMMUNITY SERVICE** Junior Achievement Company Program: VP of HR/VP of Finance/President November 2021 – Apr 2024 Gained experience overseeing financials as VP of Finance, then managing all operations as President • DECA Chapter Lead: Vice President, Co- President September 2023 – Present Designed executive team structure, mentored students, and led 50% more students qualifying for internationals ٠ Achieved a 98% score at Provincials, placing in the top 8. • London Rotary Club/Interact Club: Vice President September 2019 – 2023 Ran fundraisers in association with charitable organizations Programming: Java, Python, C#, Pytorch, Keras, OpenCV, Pandas, Arduino Technology: Sketchup, Blender, CURA, Unity, MS Office, Git/GitHub, Fusion 360

Languages: Fluent in English, Gujarati, and Hindi