Mahdi Raza Khunt

🏠 mrkhunt.me ⊙ mrkhunt in mrkhunt ✉ mrkhunt@uwaterloo.ca 📞 +1 (807) 842-4851

EXPERIENCE

SCHOOLHOUSE.WORLD | DATA SCIENCE INTERN
May 2023 – August 2023

- ➜ Conducted comprehensive analysis of 150,000+ users on platform by native SQL querying on Metabase and used Power BI to generate insights and reports.
- ➜ Evaluated 50,000+ session entries, including attendance rates by subject, co-hosting impact, and Zoom start/end times, to measure learner engagement.
- ➜ Team Lead of 100+ auditors to evaluate critical factors and key performance indicators such as Content Mastery and Safety within sessions
- ➜ Authored Helpdesk articles for Tutoring FAQs on Crispr. Responded to User Queries through Slack Chatbot. Pioneer Tutor with 40 sessions.

IIT GANDHINAGAR | SUMMER RESEARCH INTERN
July 2022 – August 2022

- ➜ Created 21 Polyhedral Kaleidoscope with research on Dihedral Angles, Platonic Solids and Coxeter Groups
- ➜ Calibrated Laser Cutter to design 2D mirror nets using CorelDRAW and visualise in 3D with SOLIDWORKS

PROJECTS

DUNDERTASK | MERN stack (MongoDB • Express.js • React • Node.js)
- ➜ Designed 5 character-based profile inspired by the popular series "The Office". Allows users to join a virtual office environment and collaborate on tasks
- ➜ Integrated interactive elements such as "Office Olympics" challenges and an achievement system, providing users moments from "The Office"
- ➜ Enables users to create, manage, and view team events with date, time, location, and attendees, facilitating efficient event coordination and planning.

PLACEME | JAVASCRIPT • HTML • CSS • FIGMA
- ➜ Designed web application that recommends top 5 neighbourhoods for buying/renting a home in 140 Toronto communities
- ➜ Takes in priorities and factors to rank by Price, Safety and Convenience Score
- ➜ Implemented an effective priority algorithm to sort the neighbourhoods based on user choices to ensure highest priority

GAMIFYING HABITS | PYTHON • ARDUINO • FRITZING • ONSHAPE
- ➜ Developed gamified habit-tracking device using Python, Arduino
- ➜ Used Fritzing and OnShape for integration of electronic components and precise modeling for haptic engagement with hardware (74HC595, LEDs and SPDT)

3D PRINTER | PYTHON • ARDUINO • FRITZING
- ➜ Created low-cost 3D printer using e-waste, Arduino6 and RAMPS 1.47
- ➜ Integrated 3 axis motors, 12V SMPS and hot-end extruder to print 50 mm PLA cube with accuracy of 1mm.

MATHYMAHDI | YOUTUBE • IMOVIE • KEYNOTE • FIGMA
- ➜ Created 35+ Animated Geometric Puzzles on YouTube (30,000+ views).
- ➜ Designed 30 Puzzles, Infographic Posters for Mathematics Outreach

EDUCATION

UNIVERSITY OF WATERLOO
BACHELOR'S IN DATA SCIENCE,
MINOR IN ECONOMICS
Sept 2022 - Apr 2027
Cum. GPA: 3.94 / 4.0

MAHATMA GANDHI INTERNATIONAL SCHOOL
IB DIPLOMA
May 2020 - May 2022
Grade: 42 / 45

SKILLS

LANGUAGES
C • C++ • Python • SQL
JavaScript • HTML • CSS

TOOLS
PowerBI • Metabase • Git • Figma
• VS Code • Xcode • iMovie

LIBRARIES, FRAMEWORK
NumPy • pandas • STL • MongoDB
• Express.js • React • Node.js

AWARDS

- **Citadel Midwest Regional Terminal:** Coded algorithms in AI programming competition
- **Faculty of Mathematics International Excellence Awards:** $20,000 Scholarship awarded to 10 students on academic merit
- **President's Scholarship of Distinction:** $5,000 Entrance Scholarship for average of 95%
- **Indian National Mathematics Olympiad:** Top 2% to qualify
- **International Youth Math Challenge:** Gold Honour for top 3% of participants
- **Distinction with Medal in CEMC Contests:** Gauss, Pascal, CIMC, Beaver, Cayley, Fermat and Euclid.