

MAHDI RAZA KHUNT

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EXPERIENCE

hyperPad

Sep 2024 - Present

Software Engineering Intern

- Enhanced LLM-driven caching with Serverless.js and Helicone
- Successfully migrated web app to Rails 7, integrating React and enhancing performance by up to 30%.
- Currently refactoring codebase for health app in React Native, MongoDB, and TypeScript

Super

Jan 2024 - Aug 2024

Operations Intern

- Spearheaded technical integration of CSAT project from **UAT** testing to configuring **Webhooks** to automate workflow till **PROD**.
- Developed an interactive data visualization dashboard using **Dash** and **Plotly** in **Python**, to display **100K+** recorded responses.
- Automated weekly dashboard by leveraging data tools (**SQL, Looker, Amplitude, Snowflake**) to streamline tracking **10+ KPIs**.
- Formatted **100+ HTML** pages of knowledge base (FAQ) ensuring **CSS** consistency across **5+** white-label help centers.

Schoolhouse

May 2023 - Aug 2023

Data Analyst

- Utilized **SQL, Metabase, & Power BI** to extract insights and reports from **150K+** users dataset that informed product decisions.
- Created key **KPIs** for identifying performance on platform and monitored dashboards to maintain **90%+** user engagement.
- Co-led MARS project initiative to **100+ auditors**, resulting in **70%** improvement in tutoring quality and data collection.

PROJECTS

AniDex | Typescript, React.js, Firebase, Node.js, Gemini 🔗

- Developed a gamified wildlife education tool to make learning about nature fun by interacting with animal species.
- Engineered features for animal recognition through camera and created chatbot components with **React** and **Typescript**.
- Integrated **GCP** and **Gemini's Multimodal LLM** using **Vertex AI** that allows users to understand about wildlife conservation.

DSDD (Scotiabank Challenge Winner) | Python, pandas, NumPy, Matplotlib, nltk 🔗

- Performed data analysis by ranking **7000+** customer complaints to enhance Scotiabank's mobile app features.
- Leveraged **NLP processes** and cutting-edge **LLM techniques** like Chain-of-Thought, One-shot and Few-shot prompting.
- Placed **3rd** out of **100+** participants at Scotiabank Data Science Discovery Days winning **\$1000 prize**.

FinQuest (BMO Future of Finance Winner) | C#, Unity, XR, 5G 🔗

- Created a **VR/AR** interactive escape room to improve financial education by solving challenges in **Meta Quest 3**.
- Developed **3+** zones with **C#** and **Unity SDK** for immersive experience featuring low latency with **5G** for multiplayer connection.
- Placed **3rd** at Future of Finance Challenge (by BMO, Rogers, Velocity) winning **\$2500** prize.

MA4988 | Python, Arduino, 3D, CAD, Hardware 🔗

- Created an e-waste recycled, efficient, low-cost **3D** printer using FDM technology through research, design, and assembly.
- Utilized **Python** and **Arduino** to program interactive functionalities in **LCD** screen and axis motors to achieve accuracy of **1mm**.

EDUCATION

University of Waterloo

Sep 2022 – Apr 2027

Bachelor of Mathematics (Data Science, Honours, Co-op)

- **CGPA: 3.90**
- **Scholarships:** \$20,000 Faculty of Mathematics Excellence Award, \$5,000 President's Scholarship of Distinction
- **Extracurriculars:** Faculty Ambassador, Math Tutor, Peer Leader, Undergrad Don, MEF Council, CEMC Marker, Velocity Program

TECHNICAL SKILLS

Languages: Python, C/C++, Typescript, Javascript, HTML/CSS, SQL, R, Racket, LaTeX

Frameworks/Libraries: React, Node.js, Next.js, Three.js, Bootstrap, Tailwind, MUI, pandas, NumPy, Matplotlib, nltk

Tools: Bash, Git, Github, Docker, AWS, GCP, Vercel, Postman, Snowflake, Firebase, Metabase, Looker, Figma