



MAHDI RAZA KHUNT

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EDUCATION

University of Waterloo

Sep 2022 – Apr 2027

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

GPA: 3.90

Scholarships: \$20,000 Faculty of Mathematics Excellence Award, \$5,000 President's Scholarship of Distinction

Activities: Undergraduate Don, Faculty Ambassador, Tutor, Peer Leader, MEF Council, Google Developer Club

EXPERIENCE

hyperPad

Jan 2025 - Present

Software Engineering Intern

- Developed a freemium release of app in **Objective-C** and **Ruby**, enabling features and upgrade prompts to drive monetization
- Updated user subscription eligibility and payment logic with **Stripe API** and **MongoDB** to enhance payment workflow reliability
- Created a **Flask**-based webhook microservice in **Python** via **Sendy API**, tested with **Postman**, to add/update email campaigns

hyperPad

Sep 2024 - Dec 2024

Software Engineering Intern

- Created workflows in **CI pipeline** to optimize **RSpec** parallel testing using matrix-strategy in **Docker** to test **4x** faster
- Built a dynamic **XML sitemap** on a **Ruby on Rails** project with auto-updates through **Sidekiq** scheduling for site discoverability
- Upgraded **Cocos2D** effects from **OpenGL** to **Metal**, improving rendering efficiency and enabling **8+** advanced shader effects

Super

Jan 2024 - Aug 2024

Operations Intern

- Spearheaded technical integration of CSAT project with **UAT** testing and **Zapier** automations for analytics and updates
- Developed an interactive review scoring 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**

Schoolhouse

May 2023 - Aug 2023

Data Analyst Intern

- Utilized **SQL**, **Metabase**, and **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 & CLUBS

Developer @ UW Data Science Club | *React, Next.js, Typescript*

- Developed **QR detection** for event registration, displaying a post-scan check-in card with event details and user information
- Redesigned admin membership table using **TanStack** library for fuzzy search, pagination, editable cells and dropdown filters

Developer @ UW Cybersecurity Club | *Docker, Node.js, Git*

- Creating platform with **CTF** challenges based on OWASP web vulnerabilities (**XOR encryption**, **XSS** and **SQL injection**, etc)
- Deploying 10 independent containers for each challenge using **Docker/LVM**, with isolated environments for secure execution

flux | *React, Next.js, Supabase, express, xyflow, liveblocks*

- Built an **interactive whiteboard** with node-based editing using xyflow and **live collaboration** and sharing using liveblocks
- Implemented authentication, email verification, data fetching and permission-based sharing using Supabase

EEGscope | *React, Vite, Node.js, MuseJS, Three.js*

- Won **best game hack** at **Hack Western 11** Processed real-time EEG signals to enable brainwave-driven gaming experiences
- Developed **adaptive controls** through blink detection, focus tracking, and gyroscopic head tilt inputs for **3 mini-games**

TECHNICAL SKILLS

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

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

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