UMAR RASOOL

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EDUCATION

Wilfrid Laurier University   **Sept. 2021 - Aug. 2025**
Hons. BSc Computer Science   *Waterloo, Ontario*

RELEVANT COURSEWORK

- Programming Languages: Python, C, Java, VBA, ARMv7
- Software Engineering
- Data Structures and Algorithm Design
- SQL / Database Management Systems
- Microprocessors / Digital Electronics
- Object-Oriented Programming (OOP)
- Discrete Mathematics
- Operating Systems
- Project Management

WORK EXPERIENCE

Thales, *Toronto, ON* − **Full-Stack Software Engineering Intern**   **Sep. 2023 - Present**
- Utilized **HTML, CSS, Django, and Python** to build **D-SPICO web-app** for train safety monitoring and testing, participating in both **front-end and back-end development**
- **Worked with senior engineers to modify** current D-SPICO application to **adapt to requirements for Wayside Train Monitoring System**
- **Documented and validated the compatibility** and testing procedures between **D-SPICO software and onboard train hardware**, ensuring the safe and reliable operation of trains

AGE-WELL, *Waterloo, ON* − **Web Developer, Research Assistant**   **Mar. 2023 - Present**
- **Web development for responsive website using HTML and CSS** hosted on WordPress, incorporating **design elements and accessibility features** for an intuitive user experience
- **Conducted research and managed a Microsoft Access Database** consisting of research, key stakeholders, and contributors to the project
- Worked collaboratively with the Principal Investigators and research staff to **develop content and manage the social media strategy and postings** for the Cog@Work Research Project

PROJECTS

Huberman AI | ReactJS, CSS, OpenAI, Flask   **Oct. 2023**
- Planned, designed, and successfully implemented **OpenAI based web app capable of answering health related questions** based on Dr. Andrew Huberman's medical podcast transcripts
- Experimented with **embedding text using OpenAI, storing vectors in FAISS,** and building chat-bot using **GPT-4 and Langchain**
- **Completed and presented project over the course of 36 hours,** and received positive feedback from **industry professionals, and business executives**

InAFlash | HTML, CSS, JavaScript, Node.js   **Nov. 2022**
- Intuitive online study tool that **creates flashcards based on user prompt**
- Uses **Co:Here's Natural Language Processing API to generate unique study questions** and applies them to virtual flashcards
- Creates quizzes based on flashcards **and lets users study and quiz themselves** all while recording performance stats

Portfolio Website | ReactJS, CSS   **Sep. 2022**
- Personal portfolio website created with fully functional **responsive elements and animations including light/dark mode toggle**
- Created using web development technologies like **ReactJS, CSS, ChakraUI, and hosted using GitHub Sites**

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS, JavaScript, C, PowerShell, SQL, VBA
Developer Tools: VS Code, Android Studio, XCode, Eclipse, MySQL
Technologies/Frameworks: Linux, GitHub, React, NodeJS, Selenium, Flask, Firebase, Kibana, WordPress

EXTRACURRICULAR

Participation in Various Hackathons   **Sept. 2022 - Present**
- ∗ Participated in various hackathons including **Hack The Valley, Hack Western, DeltaHacks, UofTHacks**
- ∗ Worked in teams to **design, build, and deploy** projects adhering to various themes and time constraints