

UMAR RASOOL

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EDUCATION

Wilfrid Laurier University
Hons. BSc Computer Science

Sept. 2021 - Aug. 2025
Waterloo, Ontario

RELEVANT COURSEWORK

- Languages: Python, C, Java, VBA, ARMv7
- Operating Systems
- Data Structures and Algorithm Design
- SQL / DBMS
- Microprocessors / Digital Electronics
- OOP
- Discrete Mathematics
- Data Visualization
- Compilers

WORK EXPERIENCE

RBC, Toronto, ON – Software Engineering Intern Jan. 2024 - Present

- Utilized **RedHat Ansible and Python** to build **automation playbooks** to automate repetitive internal application maintenance routines
- Planned and designed **new ServiceNow API architectural integration** to ensure use-case compatibility for various departmental site reliability requirements
- Worked with senior engineers to automate creation of current state architecture blueprints for 66 applications to comply with OFSI bill B-13

Thales, Toronto, ON – Software Engineering Intern Sep. 2023 - Dec. 2023

- 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

PROJECTS

Leetr | ReactJS, HTML, CSS, ExpressJS, NodeJS, MongoDB, Infobip API Nov. 2023

- Engineered a Leetcode progress tracker as a **full-stack solution**, integrating a **Chrome extension** and website. This platform aggregates user statistics and optimizes learning progression for better results
- Implemented an **Infobip API-based SMS notification system** within the application, employing a **spaced repetition algorithm** for dynamic reminders. This aided in developing positive and consistent learning habits

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

Research2Slides | Java, Spring Boot, ReactJS, Apache POI Aug. 2023

- Developed a **RESTful API** to transform and summarize research papers into visually appealing PowerPoints, efficiently processing over PDF uploads to **save users several hours per project**
- Deployed a **responsive React front-end**, facilitating an average **start to finish time of 30 seconds**
- Implemented context clue recognition, which improved **summary accuracy by 85%**

TECHNICAL SKILLS

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

EXTRACURRICULAR

- Awarded **scholarship** for, and completion of **Co.Lab Diverse Tech Talent Product Management Program**
- Participated in various hackathons including **Hack The Valley, Hack Western, DeltaHacks, UofTHacks**