

# Umar Rasool

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## EDUCATION

### Wilfrid Laurier University

*Honours. Bachelor of Science, Computer Science*

Waterloo, Ontario, Canada

*Expected Graduation: April 2025*

**Awards and Honours:** CoLab Diverse Tech Talent Scholarship (\$8,000), WLU Scholarship for 90% Average (\$5,000)

**Extracurriculars:** Muslim Student Association – Director of Professional Development, WLU Startup Incubator Member (selected out of 100+ companies), Research Coordinator for AGE-WELL - Age Tech, The Citizen's Foundation (Volunteer)

## EXPERIENCE

### Scotiabank (Global Wealth Management) | Software & Data Engineer Intern

Toronto, Ontario, Canada

Java, Spring Boot, Electron, Docker, React, Bash, GCP, Qlik, BigQuery, Python, PowerShell

*Sept. 2024 – Present*

- Developed software engineer onboarding application to reduce setup time by **80%** for new employees, projecting **\$700,000/year** in savings by automating software installation, proxy setup, and security certificate configuration, utilizing **Docker containers**
- Built new **API endpoints**, resolved critical security vulnerabilities across multiple microservices, and created endpoint tests for the successful migration of data from on-prem servers and **Azure to Google Cloud Platform**
- Designed and implemented **automated data ingestion workflows using Python and Directed Acyclic Graphs in Apache Airflow**, ensuring reliable scheduling and seamless **ETL execution**, with data loaded into **BigQuery** for analysis on **Google Cloud Platform**
- Developed a **React-based web application** utilizing the **PConnect API** to integrate with **PEGA Constellation UI**, enhancing workflow automation and **real-time data exchange** for front-office and back-office teams

### RBC (Royal Bank of Canada) | Software Engineer Intern

Toronto, Ontario, Canada

Bash, React, JavaScript, Python, Django, MongoDB, Maven, Postman, CI/CD, Splunk, Power Automate

*Jan. 2024 – Aug. 2024*

- Created POC data pipeline to **automate real-time dataflow from legacy mainframe to Azure**, integrating **Kafka**, **Precisely Connect**
- Set up **Linux environment** for development of POC, working with external consultants, using **Bash** and **VIM** to configure project files
- Automated software architecture diagram generation** by analyzing application data from **ServiceNow**, identifying software dependencies, APIs, and integrations to streamline documentation and system analysis
- Secured **first place in ISIT Hackathon** by developing automated SFTP client onboarding system using Power Automate and Selenium
- Designed, engineered, and pitched new external business client feedback app, built using **React**, **Maven**, **MongoDB**, **Express**

### Hitachi Rail (Formerly Thales GTS) | Software Engineer Intern

Toronto, Ontario, Canada

HTML, CSS, Python, Django, React, JavaScript, Azure, Elastic Kibana

*Sept. 2023 – Dec. 2023*

- Led development of a **dashboard hosted on Azure**, by leveraging test data from the web-app to show testing progress on various rail lines worldwide, **reducing the need** for on-site presence across **12 rail lines internationally**
- Worked on a web-app to digitize train safety monitoring and testing, reducing testing from **7 days to 2 days**
- Recommended and implemented automation solutions** to streamline **procurement workflows**, reducing manual data entry by integrating optimized software in collaboration with the **VP of Procurement**

## PROJECTS

### [WLUMAPS](#) | *Python, JavaScript, React, Firebase, Tailwind*

- Engineered a **Python** script to scrape and analyze scheduling data for **4,000+** classes, enabling **real-time room availability** updates and helping Wilfrid Laurier students discover new study spots on campus.
- Designed and deployed a **React** web application with dynamic room availability insights, amenity options, and time filters, serving **2800+ active users** and enhancing campus resource utilization and student experience
- Partnered with Wilfrid Laurier University to migrate classroom bookings onto our platform, currently an email based process that entails applying several months in advance, without the ability to select a room

### [Leetr](#) | *NextJS, PostgreSQL, Tailwind, Prisma, Firebase Auth, Swagger, Twilio*

- Developed a webapp to enhance the efficiency of technical interview prep, **serving 50+ users between free and premium plans**
- A full-stack website, paired with a chrome extension aggregates various data on questions completed and generates insights, and through a **spaced repetition algorithm** sends SMS reminders using **Twilio API** to users when to practice
- Implemented a friends feature to encourage competition through a leaderboard, detailed analytics of peers' strengths/weaknesses, and challenge requests

## SKILLS

**Languages:** Python, JavaScript, C, Java, PowerShell, SQL, VBA

**Software:** GCP, AWS, Docker, CI/CD, Kubernetes, Jupyter Notebook, Bootstrap, Git, MySQL, Splunk, Jira, Postman, Linux, MongoDB