ZAKI RANGWALA

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EDUCATION

University of Waterloo
Candidate for Bachelor of Mathematics, 2026

Wilfrid Laurier University
Candidate for Bachelor of Business Administration, 2026

SKILLS

LANGUAGES SPOKEN: English, French, Hindi, Urdu
PROGRAMMING: Java, Python, JavaScript, C++, SQL
TOOLS/FRAMEWORKS: Flask, Express.js, Git, Node.js, MongoDB, React.js, AR Studio, Django
OTHER SKILLS: Photoshop, Web Development, Videography, App Development, Photography, Content Creation

EMPLOYMENT

WERKIT
Software Engineer Intern — **July 2021 to Current**
- Developed various automation scripts using JavaScript and REST APIs to ease sourcing and implemented workflow with Google Sheets and AWS database
- Built website using Bubble.io alongside HTML5 and CSS3 and designed various workflows for user verification

ACORN BIOLABS
Science and Research Intern — **Sept. 2020 to Dec. 2020**
- Built a dashboard tracking various user/sales metrics and monitoring user behaviour and increased user engagement by curating various marketing campaigns
- Designed workflows using the HubSpot API to work with services such as Calendly and Shopify and added more functionality to the company web page
- Produced an instructional video used by customers while utilizing the stem cell home collection kit

APOLLO NEUROSCIENCE
Machine Learning Intern — **June 2020 to Sept. 2020**
- Conducted a research project to study sleep data derived from hundreds of users
- Analyzed the impact the Apollo Wearable had on user sleep quality and tracked the changes in sleep metrics over the course of 6 months which improved sleep score by 46%
- Utilized techniques like K-Means clustering, Principal Component Analysis and Correlation matrices to derive statistical conclusions in order to improve product
- Designed visualizations to represent the data using various tools such as Figma, Canva and Photoshop

CELLULAR AGRICULTURE CANADA
Student Research Intern — **June 2020 to Sept. 2020**
- Curated and published interactive articles about developments in the field of cellular agriculture and it's applications
- Worked with mentors from organizations like New Harvest and CellAgri to spread awareness and educate youth about this field
- Produced a video series with researchers talking about the groundbreaking work being done in the field to ensure a green and sustainable future
- Handled social media campaign across various platforms such as TikTok, Instagram and Twitter to increased user engagement by 45%

VOLUNTEERING

AGA KHAN MUSEUM · Student Photographer
- Mentored students in a one-week photography course with the Fredrick Roberts Photography Workshops
- Participated at the Scotiabank CONTACT Photography Festival and had work exhibited at the Aga Khan Museum, Queen's Park and schools all over Ontario
- Worked alongside the Lieutenant Governor's Office of Ontario to promote the 2030 Agenda for Sustainable Development, adopted by the United Nations

GLOBAL ENCOUNTERS PROGRAMME · Service Trip to India
- Participated in a service expedition trip to India along with participants from 13 countries worldwide
- Performed community service at local schools in Hyderabad and Gujarat by implementing a library system to enhance learning abilities and conducted mental health workshops to relieve stress and anxiety of students
- Explored the healthcare system of Rural India in Gujarat and Hyderabad by studying the barriers to essential healthcare and how organizations are addressing these issues

PROJECTS

PERSONALIZED VIRTUAL ASSISTANT
- Developed a virtual assistant using various open-source libraries and APIs in python
- Incorporated many features like sending an email, fetching stock prices and game scores, Spotify integration, conducting speed tests, checking the weather and performing complex computational and mathematical problems

BANKING DATABASE SYSTEM
- Created a backend banking database interface in Java using the SQL Server as the database
- Added functionality for multiple users to coexist as well as have multiple accounts, of which they could track the money spent

NETFLIX CLONE
- Designed and developed a web app that mimics the functionality and features of popular streaming service, Netflix
- Worked on the front end using React JS and Firebase as well as TMDB to fetch movie data

REAL-TIME FACE MASK DETECTOR
- Built a simple lightweight, object detection program that can determine when someone is wearing a mask or not and if they are protected, ensuring the safety of others
- Leveraged the Object-Detection API and TensorFlow framework to train the SSD-mobile net neural network consisting of 300+ images to come up with these detections

COVID-19 TRACKER
- Constructed a web application capable of displaying live data about a various number of cases, deaths and recoveries worldwide
- Worked on the front end using React JS and Firebase as well as Disease. sh to fetch the data