# ZAKI RANGWALA

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## EDUCATION

**Wilfrid Laurier University**
Candidate for Bachelor of Computer Science 2025

## SKILLS

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

## EMPLOYMENT

### WERKIT
Software Engineer Intern                                                      June 2021 to Dec. 2022
- Developed various automation scripts using JavaScript and REST APIs to ease sourcing by about 49% and implemented workflow with Google Sheets and AWS database.
- Created the user-facing website from scratch using tools like Bubble.io alongside HTML5 and CSS3 and designed various user verification and authentication workflows.
- Integrated a payment tunnel to facilitate mass payouts to over 5000+ users and built a Discord Bot using NodeJS to establish a knowledge base and user community.

### ACORN BIOLABS
Science and Research Intern                                                   Sept. 2020 to Dec. 2020
- Built a dashboard tracking various user/sales metrics, increasing user engagement by curating targeted marketing campaigns, resulting in a 15% boost in user interactions.
- Designed workflows using the HubSpot API to seamlessly integrate with services like Calendly and Shopify, enhancing website functionality by 30%.
- Produced an instructional video, which received 4.5/5 feedback from customers while utilizing the stem cell home collection kit.

### APOLLO NEUROSCIENCE
Machine Learning Intern                                                       June 2020 to Sept. 2020
- Conducted a research project studying sleep data derived from hundreds of users.
- Analyzed the impact the Apollo Wearable had on user sleep quality, improving sleep score by 46% using advanced analytics.
- Utilized techniques like K-means clustering, Principal Component Analysis, and Correlation matrices to derive statistical conclusions, enhancing product functionality by 20%.
- Designed visualizations using tools like Figma, Canva, and Photoshop, resulting in a 10% increase in user comprehension.

### CELLULAR AGRICULTURE CANADA
Student Research Intern                                                       June 2020 to Sept. 2020
- Curated and published interactive articles on cellular agriculture, receiving an average of 5,000 views per article.
- Collaborated with mentors from elite organizations like New Harvest and CellAgri to amplify the reach, leading to a 25% increase in youth awareness.
- Produced a video series featuring top researchers, which was acknowledged and shared by 100+ professionals in the field.
- Managed a social media campaign on TikTok, Instagram, and Twitter, increasing user engagement by 45%.

## PROJECTS

### PERSONALIZED VIRTUAL ASSISTANT
- Engineered a versatile virtual assistant using advanced open-source libraries and APIs in Python, leading to a 20% efficiency improvement in daily tasks.
- Seamlessly integrated diverse functionalities, including email dispatch, real-time stock prices, game scores retrieval, Spotify synchronization, speed tests, real-time weather updates, and the ability to handle intricate computational and mathematical challenges.

### BANKING DATABASE SYSTEM
- Architected a robust backend banking database interface in Java, utilizing SQL Server, resulting in a 15% improvement in transaction efficiency.
- Introduced multi-user compatibility, empowering users to maintain multiple accounts simultaneously and monitor their expenditure patterns, enhancing user experience by 25%.

### NETFLIX CLONE
- Conceptualized and crafted a web application replicating the essential features and functions of Netflix, capturing over 1,000 user engagements within the first month.
- Orchestrated the frontend development with React JS, employing Firebase and TMDB for accurate movie data retrieval.

### REAL-TIME FACE MASK DETECTOR
- Developed a state-of-the-art object detection application capable of instantaneously discerning mask usage, bolstering safety compliance by 30% in tested environments.
- Utilized the Object-Detection API and TensorFlow framework to proficiently train the SSD-mobile net neural network using a dataset of 300+ images, achieving a detection accuracy rate of 95%.

### COVID-19 TRACKER
- Established a dynamic web application designed to showcase real-time global data on COVID-19 cases, deaths, and recoveries, which became a primary source of information for 5,000+ users.
- Focused on frontend development harnessing React JS, integrated with Firebase, and collaborated with Disease.sh API to ensure up-to-date and accurate data retrieval.