ZAKI RANGWALA

✉ rang6860@mylaurier.ca
🌐 zakirangwala.com
📞 4168980216

in zakirangwala
⌨ zakirangwala

EDUCATION

Wilfrid Laurier University
Candidate for Bachelor of Computer Science 2025

SKILLS

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

EMPLOYMENT

WERKIT
Software Engineer Intern   **June 2021 to Dec. 2022**
- Developed automation scripts using **JavaScript** and **REST APIs** that streamlined internal operations such as tracking client activity, automating email dispatches, generating contracts and ensuring a streamlined workflow between Google Sheets and **AWS** which eased sourcing by **49%**
- Created a client portal with **Bubble.io** for direct service access, emphasizing secure user authentication.
- 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**
- Constructed a dashboard to monitor user/sales metrics, amplifying user engagement with tailored marketing campaigns, yielding a **15%** surge in interactions.
- Pioneered **HubSpot API workflows** for flawless integration with platforms such as Calendly and Shopify, enhancing operational efficiency and user experience.
- Crafted an instructional video for the stem cell home collection kit, which was viewed by **over a thousand clients.**

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**

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.