ZAKI RANGWALA
SOFTWARE ENGINEER

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EDUCATION

Wilfrid Laurier University
Candidate for Bachelor of Computer Science
2025
Major GPA : 3.9

SKILLS

PROGRAMMING: Java, Python, TypeScript, C++, Bash, SQL, R, Flutter
TOOLS/FRAMEWORKS: React, Firebase, Git, Django, Postgres, Tensorflow, AR Studio, Next.js, AWS, Docker
OTHER SKILLS: Photoshop, Figma, Blender, Wireframing, Consulting, Content Creation

EMPLOYMENT

FAURA
Founding Engineer — **May 2024 to Current**

- Implemented a comprehensive natural disaster assessment tool utilized by over **5,000** homeowners to mitigate property risks.
- Collaborated with **150+** industry professionals to design and implement a cutting-edge wildfire risk assessment, enhancing property safety protocols.
- Successfully fundraiser over **$500,000** from Dorm Room Fund and CEAS Honors, securing a spot in Metaprop's prestigious accelerator program.

ONOVA
Software Engineer Intern — **Nov. 2023 to Current**

- Spearheaded the development of PokerGPT, an AI-powered Poker Coach, leveraging advanced **LLMs** and sophisticated **prompt engineering**. Launched and optimized the backend model, including integration of solver functionalities, achieving a user base of over **1000+** within the first month.
- Developed and enhanced Earth, a comprehensive hackathon management platform, implementing authentication, submission, and admin workflows. Successfully managed **two major hackathons**, Capgemini x Google and Capgemini x Microsoft, attracting over **4000** participants, marking it as one of the largest internal corporate Gen AI hackathons.

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.

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%**.

PROJECTS

COVID AERIAL 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.

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.

SPOTIFY EMOTION CLASSIFIER

- Developed an advanced emotion recognition model capable of classifying seven distinct emotions, including **Anger, Contempt, Disgust, Fear, Sadness, Happy, and Surprise**, with an accuracy rate of up to **97%**.
- Utilized an ensemble of pre-trained **VGG16**, **ResNet50**, and **InceptionV3** models, integrated with a Gradio app to provide Spotify playlists tailored to the detected emotions.

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%**.