

# Yahya Kayani

RESEARCH GRADUATE STUDENT

☎ (+1) 902-802-1858 | ✉ yahya.kayani@dal.ca | 🏠 yahyakiani.github.io/reactJs-resume-template/ | 📱 Yahyakiani |  
https://yahyakiani.github.io/blog.yahyakiani.dev/

## Education

### COMSATS (COMSATS Institute of Information Technology)

Islamabad, Pakistan

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Feb. 2015 - Jan. 2019

- **Courses:** Data Structures, Machine Learning, Web Engineering, Database Management
- **Academic Achievement:** Achieved the second prize for my final year project at the industrial Expo in University.

### Dalhousie University

Halifax, Nova Scotia

MASTERS IN COMPUTER SCIENCE

Jan. 2023 - Jan. 2025

- **Courses:** Data Mining and Data Warehousing, Process of Data Science, Software Defined Networking
- **Research:** Conducting research on using NLP tools to aid children with language delays. Here is the [Link](#).

## Experience

### Nmx Global Software

Islamabad, Pakistan

SOFTWARE ENGINEER

Jan. 2021 - Dec. 2022

- Enhanced database performance by optimizing relational databases and implementing efficient queries, reducing application breakdowns by 15% through ORM techniques.
- Architected and implemented dashboards to give members a more comprehensive insight into their working.
- Increased system efficiency by developing API microservices in Node.js and Python, utilizing ORM, resulting in a 20% increase in processing speed.
- Contributed to Project (Limesurvey) by resolving 30+ critical bugs and introducing new features, thereby advancing project functionality and user satisfaction.

PYTHON DEVELOPER

- Built and deployed automation bots utilizing selenium focusing on ease of use, flexibility, and scaling.
- Developed efficient web-crawlers for data extraction from various websites using lxml and BeautifulSoup for analysis.
- Implemented RESTful API server using Swagger UI for communication between frontend and the backend.

## Projects

### Neural Edge

Python, SQLAlchemy, PostgreSQL

CORE DEVELOPER

- Worked on a predictive modeling project for a healthcare organization to optimize patient allocation and resource utilization.
- Utilized statistical analysis techniques and optimization algorithms to develop a predictive model for patient demand forecasting.
- Implemented application interaction with server side using JSON parsing. Performed Database ORM Query Optimizations.
- Improved resource allocation efficiency by 15%, resulting in reduced wait times for patients and increased overall satisfaction.

### Colorblind Mode Chrome Extension

Javascript, Chrome Extension APIs

CREATOR AND DEVELOPER

April 2023

- Designed and developed the Colorblind Mode Chrome Extension, an open-source project aimed at making the internet more accessible to people with color blindness.
- Implemented a color matrix algorithm that modifies the colors on web pages based on the selected colorblindness profile (Protanopia, Deuteranopia, or Tritanopia).
- Enabled developers to test the accessibility of their websites by allowing them to view their content as someone with color blindness would see it.
- Continuously improved the extension to ensure it is user-friendly, easy to use with the latest versions of Google Chrome.

### Real-Time Point of Interest Detection System

Python, Tensorflow, Kivy Framework, openCV, Raspberry PI

CORE PROJECT MEMBER (FINAL YEAR PROJECT)

- Developed in python using Kivy Framework for Cross-Platform UI development along with TensorFlow Framework for Model Training, Optimization and testing.
- It performed monitoring and analysis on a set of Image frames. A Vision Based Security system. It relied on 3 layers of security which are human detection, Face detection, and Gait detection.
- Gait detection was applied using Recurrent neural networks. Made use of Transfer Learning Technique for our Deep learning Model.
- Awarded 2nd Position in Open House Competition held in COMSAT University Islamabad.

## Tweet Sentiment Analyser Bot

NLTK, Matplotlib, Pandas, NumPy

CORE DEVELOPER

- Used NLP (NLTK Library) concepts like tokenization, stemming and bag of words in python to prepare the data to be fed to the bot for training.
- Trained the chatbot using deep learning concepts like Feed Forward Neural Net with linear layers and ReLu activation function.
- Improved the accuracy of the bot by adding dropout layers and implemented early stopping.
- Used PyTorch, NumPy, Pandas to write the code and Matplotlib to show the accuracy of the bot. Used Jupyter Notebook to write the code, analyze data and manipulate data to feed to the bot.

## Awards & Certificates

### AWARDS

- 2018 **Finalist**, COMSATS Projects and Career Expo
- 2017 **Semi-Finalist**, Model CCI Parliamentary Provincial Debating Competition

### CERTIFICATES

- 2020 **Coursera Certification**, Databases and SQL for Data Science [Certificate Link](#)
- 2020 **Coursera Certification**, Open Source Tools for Data Science [Certificate Link](#)
- 2019 **IBM Certification**, Python 101 for Data Science [Certificate Link](#)

## Extra Curricular

### Dalhousie Programming Club

TEAM MEMBER

Feb, 2023

- Dalhousie Programming Club focuses on organizing programming competitions and activities aimed at improving students' programming skills.
- Designed a comprehensive 10-week programming curriculum to provide students with a structured learning path and hands-on experience in programming especially in python.
- Assisting in the development and delivery of workshops and training sessions.

### COMECS Society

DIRECTOR GAMING SOCIETY (COMECS)

Nov. 2017

- Organized and managed high-profile gaming events, including tournaments, debates, and workshops, aimed at fostering a vibrant gaming community within the university.
- Successfully procured state-of-the-art gaming equipment, ensuring seamless and engaging experiences for participants.
- Orchestrated a gaming event that drew over 500 enthusiastic participants, solidifying the Gaming Society's reputation as a thriving hub for gaming enthusiasts within the university.

## Skills

<b>Python Frameworks</b>	Swagger-API, Tensorflow, Keras, Pandas, Numpy, Scikit-learn
<b>Databases</b>	MySQL, PostgreSQL, MongoDB, IBM DB2
<b>Domains</b>	Language Tokenization, Data Crawling, Data visualization, Data cleaning,
<b>Languages</b>	Python, Javascript, C++, Bash
<b>Tools</b>	Docker, Vscod, Chrome Dev Tools, Excel
<b>Version Control</b>	Github, GitLab, BitBucket