

# Nidhi Vanjare

+1 905 462 8369 • vanjaren@mcmaster.ca • in nidhi-vanjare-1307 • nidhivanjare

## HIGHLIGHTS

- Actively pursuing a Master's degree in Engineering at McMaster University with a focus on Systems and Technology, augmented by practical Co-op experience.
- Demonstrated proficiency in project management, honed through diverse engagements spanning computer science disciplines and cutting-edge technologies.
- Equipped with robust skills in planning, time management, teamwork, leadership, and design controls, underscored by adept problem-solving abilities.
- Proficient in creative and technical writing, complemented by strong public speaking skills.
- Areas of expertise include Machine Learning, Software Engineering and System Design, Data Science, and Web Development/Full Stack, reflecting a passion for innovation and emerging technologies.

## EDUCATION

### Master in Engineering - Systems and Technology

McMaster University, Hamilton ON

Sep 2022 - Aug 2024

Relevant Coursework : Multivariate Statistical Methods for Big Data Analysis, Artificial Intelligence and Machine Learning, Project Management, Cloud Computing, Deep Learning and Natural Language Processing.

### Bachelor of Engineering - Computer Engineering

University of Mumbai, India

9.15/10 CGPA

May 2018 - May 2022

Relevant Coursework : Advance Algorithms, Database Management Systems, Machine Learning, Data Warehousing Mining, Operating Systems, Computer Architecture, and Software Engineering.

## KEY SKILLS

### Programming / Web Languages

Python, Java, Javascript, HTML, CSS, PHP

### Back-end Technologies

MySQL, Firebase, MongoDB, AWS, SQLite

### Other Interests

Android Development, Machine Learning, Data Science

### Frameworks, Tool and Libraries

Android SDK, Git, Sklearn, OpenCV, Matplotlib, Keras, Tensorflow, ASP.NET Selenium, Pandas, NumPy, Bash, NLP, Swift, Flutter(Dart), React.js

### Operating Systems

MS Excel and Word

Mac OS, Windows, Ubuntu

## PROJECTS

### Citizen problem detection from Twitter data

June - May 2022

Apache Kafka, Zookeeper, ML, NLTK

<https://github.com/R-A-N-N/Final-Year-Project>

- Developed a project which focuses on the ways of finding citizen problems with their locations by using tweet data.
- A Naive Bayes classifier with the help of a count vectorizer was trained on the annotated tweets and was tested on a separate set of tweets along with real-time extraction.
- This was achieved by using streaming models like Apache Kafka for real-time extraction processing, classification and using the Mongo DB cloud database for storage of the classified tweets which were then displayed on a website created from scratch.
- Published a research paper on the project at the Elsevier SSRN Series Conference. (<https://ssrn.com/abstract=4097217>)

### Recipe Recommender Application

Jan - April 2021

Advanced Java, Android SDK, Firebase

<https://github.com/R-A-N-N/Recipe-Recommender>

- Built a recommendation system - an Android Application for recipes using the largest publicly available collection of recipe data.
- Recipes were recommended according to the ingredients chosen by the user in the application interface.
- The login and favourite recipes data were stored in a local database. All the other information was in Firebase real-time database.
- Additional features like grocery list, adding own recipes and reviews and rating the recipes were articulated.

### Bus-Ticket Management

Feb - April 2019

Java, Swing, AWT, SQLite

<https://github.com/TECHNOCHAMANS/New-Smart-Bus-Ticket-Management-System>

- Created a server side and user side application which focused on online bus ticket booking and all the integrated processes and functionalities related to it like selecting a seat, route, date, time, payment etc.
- Used Java as the core language along with Swing and AWT packages on Eclipse workspace and SQLite as back-end.

## RELEVANT EXPERIENCE

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### Software Engineer Intern

*Evertz Microsystems*

*May 2023 - Present*

- Contributing to Magnum, a leading broadcasting software, with a focus on Python-based routing services and configurations.
- Engaged in Linux-based Python development for media transport control software, leveraging cutting-edge technologies in a dynamic team environment.
- Participating in the design and implementation of innovative solutions to address challenges in the broadcasting industry, demonstrating problem-solving skills and creativity.

### Data Science and Business Analytics Intern

*Sparks Foundation*

*May - June 2021*

- Led exploratory data analysis project, revealing insights and patterns in retail data through statistical analysis and visualizations.
- Leveraged Python libraries including pandas, numpy, seaborn, mplcursors, and matplotlib to identify key trends and make data-driven recommendations.
- Provided strategic insights such as optimizing office supply categories in specific states and advising against excessive discounting to prevent losses.

### Web Development Intern

*Smireet Solutions*

*Feb - April 2021*

- Spearheaded the development of a dynamic and responsive e-commerce website, enhancing user experience and satisfaction.
- Employed HTML, CSS, JavaScript, PHP, and MySQL to create visually appealing and functional designs, optimizing the platform for seamless navigation.
- Ensured comprehensive product information and seller details were readily available to users, enhancing transparency and trust.

### Android Development Intern

*Fairy Digital*

*Aug - Sept 2020*

- Conceptualized and developed a feature-rich Android Photo Editor Application, integrating multi-threaded programming concepts and object-oriented design principles.
- Implemented key features such as filters, brush tools, text editing, and gallery integration, enhancing user engagement and satisfaction.
- Produced technical content to document Android Development tools, facilitating knowledge sharing and team collaboration.

## CERTIFICATIONS

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AICTE NEAT : AI, ML and Cloud Computing Certification

Oracle : Java Foundation, Java Fundamentals and Java Programming

NVIDIA : Deep Learning for Computer Vision

## EXTRA-CURRICULAR

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### Technical Blog Writer

*Medium - <https://rnidhivanjare.medium.com>*

*Oct 2020 - Present*

- Active blogging of technical content for the consumer portion of the website on technological frameworks and platforms like Android Studio, GitHub, Web Design and Machine Learning.

### Open Source Contributor

*Girl Script Summer Of Code*

*Feb - May 2021*

- Contributed to 10+ open source projects in various domains along with 1000 other developers, including domains like web development, android development, machine learning and data structures, algorithms, which helped in improving existing skills and build public projects.

### Teaching Volunteer

*U&I Trust (NGO)*

*Nov 2020 - May 2021*

- U&I is a volunteer-driven charitable organization that aims to work towards positive social change in the spheres of education, anti-trafficking, women's welfare, and mental health.
- Volunteered in teaching Maths to underprivileged children for 3 hrs per week from grade 4 to grade 6.

### Women In Engineering - Secretary

*Institute of Electrical and Electronics Engineers (IEEE) - APSIT Student Branch*

*Mar 2020 - Jan 2021*

- Organised various virtual events, invited speakers, hosted webinars in collaboration with Bombay Section and various other student branches and actively handled the social media accounts of the organization.