

# KARAN VISHWAKARMA

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## SUMMARY

A decisive, innovative and detail-oriented software engineer seeking to leverage software development skills.

## EDUCATION

Master of Science in Computer Science, University of Illinois, Chicago, GPA: 4.0/4.0

Jan 2021 – Dec 2022

Bachelor of Engineering and Technology from IET, DAVV Indore, India, GPA: 3.7/4.0

August 2016 – June 2020

## TECHNICAL SKILL SET

Programming languages	Java, C++, SQL
Database	MySQL, SQLite, MongoDB, SharedPreferences, Oracle 10g
Web Development	HTML5, PHP, CSS, Express, Angular 8, JavaScript, .NET, Typescript, ReactJS
Development Ecosystem	IntelliJ, GIT, Postman, Android Studio, Eclipse, Visual Studios, JIRA
Operating system	Windows, Linux, MAC OS X

## PROFESSIONAL EXPERIENCE

### Graduate Research Assistant: University of Illinois, Chicago

February 2021 – Dec 2021

Implemented web applications and managed MySQL databases for enhancing accessibility in the official website of the ADA.

### Otomator Technologies: Software Developer Intern

September 2020 - November 2020

**Technologies used:** Java, NodeJS, Mongoose, Express, MongoDB, MQTT network protocol

**Description:** A software that allows users to keep track of the vehicles through parameters like speeds, fuel lid status, signals, etc.

- Designed and implemented user interface with different components in React JS and guidelines in constraint layout.
- Integrated MQTT network protocol and Google Volley for instant update and data through REST API's from server.
- Utilized SharedPreferences for maintaining the login session for the users and Bundles for screen configuration management.

### Plutomen Spaceforce: Software Engineer Intern - Android

June 2020 - August 2020

**Technologies used:** Java, SQLite, Android Studios, XML, SharedPreferences, Google Admob

**Description:** SquadCam is a social media platform that connects people and performs facial recognition to make photo sharing efficient.

- Implemented the Camera2 API for recording video and capturing photos with VideoView for better scaling and tinting.
- Utilized Google Volley library for efficient exchange of data between the server and the users in JSON format.
- Persisted user data in Google Firebase and designed the message communication system using socket programming in Java.

## ACADEMIC PROJECTS

### GPS Trails: Web Application

January 2021 - April 2021

**Technologies used:** HTML, CSS, TypeScript, NestJS, Bootstrap, MongoDB, Angular 8, Map box API

**Description:** A web application that provides information about the various trails of national parks to the user with embedded maps.

- Designed the user interface using HTML, CSS3, and JavaScript with semantic HTML5 for better code modularity.
- Utilized components in Angular 8 for designing the functionalities which utilized services for inter-component data exchange.

### Sentiment Analysis for Stock Prediction: Machine Learning

January 2020 – June 2020

**Technologies used:** Python, Support Vector Machine, Jupyter Notebook, TF-IDF algorithm

**Description:** A software for collecting user reviews and tweets for predicting the stocks using sentiment analysis.

- Designed the user interface using fragments on activities and nested layouts for better and efficient user readability.
- Integrated libraries like matplotlib and pandas for better visualization and efficient manipulation of data points respectively.
- Utilized tweepy handler and textblob library for gathering and forming the testing and training dataset.

### Notes up: Android Application

October 2018 - November 2018

**Technologies used:** MySQL, PHP, REST, Java, Android Studios, XML, SQL, SharedPreferences, Google Volley, MongoDB

**Description:** An Android application (with 1,00,000 downloads) that allows users to take notes and customize data.

- Designed and implemented user interface with speech-to-text functionality enabling users to take notes through voice input.
- Integrated Google AdMob to provide a platform to serve Ads and increase user engagement..
- Persisted user data in SQLite database and leveraged SharedPreferences for faster results & efficient data loading.

## CERTIFICATIONS AND AWARDS

- Microsoft Student Partner
- Algorithms and Data structures from Stanford University Coursera

January 2020 – December 2020

April 2017 - June 2017