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++, C#, SQL
Database	MySQL, SQLite, MongoDB, SharedPreferences, Oracle 10g
Web Development	HTML5, PHP, CSS, ASP.NET, Angular 8, JavaScript, .NET, Typescript, ReactJS
Development Ecosystem	IntelliJ, GIT, Postman, Android Studio, Eclipse, JIRA, Amazon EC2
Operating system	Windows, Linux, MAC OS X

PROFESSIONAL EXPERIENCE

CME Group: Software Developer Intern **May 2022 - August 2022**
Technologies used: C#, ReactJS, ASP.NET, Entity Framework Core, PingFederate, HTML5, CSS
Description: Buoy is a web application that provides a common platform for calculating risk management parameters in trading.

- Designed and implemented user interface using HTML, ReactJS and JavaScript for dynamic and static loading of web pages.
- Integrated SAML 2.0 authentication in the application for managing user access and protecting specific controllers of the app.
- Utilized Entity Framework Core for storing data and utilized migrations for ORM of class entities to SQL Server tables.

Graduate Research Assistant – University of Illinois, Chicago **February 2021 - April 2022**

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

Xohani Solutions Pvt. Ltd: Software Developer Intern **June 2020 - Dec 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 speed, fuel lid status, signals, etc.

- Designed and implemented user interface with different components in ReactJS and guidelines in constraint layout.
- Integrated MQTT network protocol and Google Volley for instant retrieval of information and data through REST from server.
- Utilized SharedPreferences for maintaining the login session for the users and Bundles for screen configuration management.

ACADEMIC PROJECTS

GPS Trails: Web Application **January 2021 - April 2021**
Technologies used: HTML, CSS, TypeScript, NestJS, Bootstrap, MongoDB, Angular 8, Map box API, Amazon EC2
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 **January 2020 – December 2020**
- Algorithms and Data structures from Stanford University Coursera **April 2017 - June 2017**