KARAN VISHWAKARMA

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SUMMARY

Passionate and self-motivated software developer 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, BASIC
Database	MySQL, SQLite, SharedPreferences
Web Development	HTML, PHP, CSS, HTML5, Angular 8, JavaScript, NodeJS
Development Ecosystem	IntelliJ, GitHub, Android Studio, FileZilla, Excel, Microsoft PowerPoint
Operating system	Windows, MAC OS

PROFESSIONAL EXPERIENCE

Graduate Research Assistant: Great Lakes ADA center UIC   **February 2021 – August 2021**
Designed the applications of the official ADA website and handled the database tables to store information from various platforms.

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 - 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, MySQL, 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.

PDF Pro: Android Application   **February 2020 - March 2020**
Technologies used: Java, SQLite, Android Studios, XML, SharedPreferences, Google AdMob
Description: An Android application for creating, storing, and editing PDF's on one platform.
- Designed the user interface using fragments on activities and nested layouts for better and efficient user readability on all devices.
- Integrated Gradle libraries and classes like iText and PDFTextStripper for rendering the PDF files on user command.
- Utilized AsyncTask for background processing and PDF-Document library for processing the files from the user's device.

Notes up: Android Application   **October 2018 - November 2018**
Technologies used: Java, SQLite, Android Studios, XML, SharedPreferences, Google AdMob
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**