KARAN VISHWAKARMA

karan.vish17@gmail.com   linkedin.com/in/karan-vishwakarma17   https://tinyurl.com/playstoreprofile
https://github.com/karan9617/   +(1)-469-943-9009   https://karan9617.github.io/karan17/

SUMMARY

Result-oriented software engineer with expertise in Java, Python, C #, C++, full-stack and mobile app development. Proficient in front-end technologies like JavaScript and React and experience in multiple back-end technologies, delivering scalable and reliable software solutions.

EDUCATION

Master of Science in Computer Science, University of Illinois, Chicago, GPA: 4.0/4.0
Bachelor of Engineering and Technology from IET, DAVV Indore, India, GPA: 3.7/4.0

TECHNICAL SKILL SET

Programming languages	Java, Kotlin, Python, C++, C#
Database	MySQL, SQLite, MongoDB, SharedPreferences, Neo4j
Web Development	HTML5, PHP, CSS, ASP.NET, Angular 8, JavaScript, .NET, Typescript, ReactJS
Development Ecosystem	IntelliJ, GIT, Postman, Hadoop, Gunicorn, Eclipse, JIRA, Amazon S3, Nginx, Spring
Operating system	Windows, Linux, MAC OS X, Debian 11

PROFESSIONAL EXPERIENCE

Michaels Store, Inc: Software Development Engineer 2   **Jan 2023 – Present**
Technologies used: Java, Python, D3.js, HTML, CSS, Gunicorn, Nginx, JavaScript, LangChain, Spring Boot, Redis, NLP
Description: A software for the search team to visualize the knowledge graph from the comprehensive dataset stored in Neo4j database.
- Designed and implemented user interface using Spring framework, HTML and JavaScript for parsing data for knowledge graph.
- Deployed the application on a virtual machine with Gunicorn for scalability and Nginx as reverse proxy for the application.
- Developed and designed the structure of the Knowledge graph using Neo4J for categories in the Michaels Store search team.

CME Group: Software Developer   **May 2022 - August 2022**
Technologies used: C#, ReactJS, PHP, ASP.NET, Entity Framework Core, PingFederate, HTML5, CSS, SAML 2.0, NUnit
Description: A web application that provides a common platform for calculating risk management parameters for Future and Options trading.
- Implemented user interface using ASP.NET, 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.

Notes up: Software Developer (1,00,000 users)   **Jan 2020 – Dec 2020 (1 yr)**
Technologies used: Java, Kotlin, JavaScript, MySQL, Linux, Junit, HTML, CSS, Python, Spring Boot, REST, JDBC, Jetpack Compse
- Designed and implemented user interface using speech-to-text functionality enabling users to take notes through voice input.
- Persisted user data in SQLite database and leveraged Spring Boot for constructing the API for data retrieval from the database.
- Utilized Spring Boot to construct the native API's and MySQL for the additional relational accessibility data in a tabular format.

Xohani Solutions Pvt. Ltd: Software Developer   **Jan 2018 - Dec 2020 (3 yrs)**
Technologies used: Java, Android, NodeJS, Mongoose, Express, MongoDB, MQTT network protocol, TCP, Jetpack Compose
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.

PROJECTS

Sentiment Analysis for Stock Prediction: Machine Learning   **January 2020 – June 2020**
Technologies used: Java, 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.

PDF Pro: Android Application   **October 2018 - November 2020 (2 yr)**
Technologies used: MySQL, PHP**,** REST, Java, Android Studios, XML, SQL, Spring Boot, Google Volley, Jetpack Compose, JUnit
Description: An Android application (with 1,00,000 users worldwide) that allows users to take notes and customize data.
- Integrated libraries and classes like PDFBox, iText, and PDFTextStripper for rendering and manipulating the files on user command.
- Utilized AysncTask for background processing and PDF document library for processing the files from the user's device.

CERTIFICATIONS AND AWARDS

- Gold Medalist in International Cyber and English Olympiad   **January 2015 – December 2015**
- Algorithms and Data structures from Stanford University Coursera   **April 2017 - June 2017**