Sushil Kumar

Computer Science and Engineering, Indian
Institute of Technology, Jodhpur

- Bangalore
- +917742311005
- kumar.15@iitj.ac.in

Work Experience

Software Engineer   Jan/2021 - March/2021

Ezetap Mobile Solution Private Limited

- Desigining, maintaining and building the reusable,efficient and reliable Java code.
- Implementing GIT for version control.
- Working on Agile(Scrum) Envirement.
- Giving Support to programing team members as required.
- Implementing Spring MVC framework to handle requests.
- JDBC was used to provide commectivity with MYSQL.
- JavaScript was used for data validations.

EDUCATION

B.Tech, Computer Science

Indian Institute of Technology, Jodhpur, Rajasthan

Class XII

Shree Krishna Public School, Indore, Madhya Pradesh

ACADEMIC ACHIEVEMENTS

- Placed among the top 0.5% of 1.4 million applicants in JEE Advanced.
- JEE Advance **AIR 2488**
- Selected for the Interview Round in KVPY 2014,2015 respectively.

PROJECTS UNDERTAKEN

Online Library Management System

Guide - Dr. Chiranjoy Chattopadhyay.

- Developed web Application for Online Library Management
- Implemented in PHP with SQL database
- A sophisticated software development cycle with stages including Documentation, Designing, Coding, Testing and Improvement was practiced.

Automatic Pattern Synthesis System Based on Fractal Geometry

Guide - Dr. Chiranjoy Chattopadhyay.

- Pattern Generation Using IFS
- Implemented in Matlab
- A sophisticated software development cycle with stages including Documentation, Designing, Coding, Testing and Improvement was practiced.

Skew Detection and Correction

Guide- Dr. Gaurav Harit

- Understanding different methods for detecting the skew angle like Hough Transform, Projection

Profile Analysis, Nearest Neighbour

Designing Centralized Access Control Mechanism using IoT

Guide - Dr. Manas Khatua

- Understanding different Centralized Access Control Mechanisms like RBAC, CBAC, ABAC, Cap-BAC and TBAC.
- Given a particular scenario, Implementing and Simulating the phenomenal Control mechanism using IoT.

Investigation of Randomized Data Structures for Learning Navigational Path

Guide - Dr. Chiranjoy Chattopadhyay.

- Study of RRT(s) as a tool for path planning and RRT-Connect Algorithm for solving single query path planning problems.
- The task is to determine control inputs to drive a robot from it's initial configuration and velocity to a goal configuration and velocity while obeying physically-based dynamical models and avoiding obstacles in the robot's environment.
- The Simulation was done on Pygame(Python Module).

TECHNICAL SKILLS

1. Java, Java Core, JavaScript, C++, Python
2. Spring, Spring Boot, Spring MVC, Hibernate, MYSQL, React.js

RELEVANT COURSES

- Computer Science: Computer Programming, Data Structures and Algorithms, Algorithm Analysis and Design, Computer Organization and Architecture, Operating Systems, Software Engineering, Object-Oriented Analysis and Design, Artificial Intelligence, Computer Networks, Database Systems
- Computational Mathematics: Discrete Mathematics, Theory Of Computation, Compiler Design
- Mathematics: Real Analysis and Linear Algebra, Complex Analysis and Differential Equations, Probability
  and Statistics and Random Processes

EXTRA CURRICULARS

- Like to play outdoor games in leisure time.
- Traveling, Listening Music, Reading Books.