Kartik S Marathe

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EDUCATION

Bachelor of Engineering in Electronics and Communication, *Bangalore, India*   Aug 2018 – Aug 2022
R V College of Engineering| **GPA : (8.67/10.0)**
Coursework - Data Structures, Intelligent Systems, Database Management Systems, Mobile Application Development, Basics of Python

PROJECTS

Development of Automation Tool for Optimizing Floorplan of a Given VLSI Design [Java]   July 2022

• Designed a tool for floor planning for VLSI design using Java along with Swing APIs by implementing simulated annealing algorithm for obtaining optimized floorplan

• The paper related to this project has also been presented at the INDICON conference.

Automatic Detection of COVID 19 Protocols violation using video surveillance cameras [Python]   June 2021

• Using object detection algorithm YOLO version 3, trained a model to detect people violating COVID protocol such as if the person is wearing a mask and also if the social distancing protocol has been maintained.

• Created a user interface to obtain the results in real-time with people violating the protocol marked in different color.

TODO web application [Angular, Firebase]   April 2021

• Designed a web application in Angular for creating a TO-DO list for a user with authentication and various filters in the application

• Used firebase APIs to interact with database and implement a real-time application

PROFESSIONAL EXPERIENCE

Associate Software Engineer– *Boeing India Private Ltd, Bengaluru*   Aug 2022 - Present

• Working as a full stack developer on technologies such as Spring boot, Angular, and Azure cloud, deploying the project, and also automating the deployment process using Continuous Integration and Continuous Deployment (CI/CD).

• Created APIs and tested it with unit and integration tests and then integrated these APIs with UI using angular application.

• Automated the process of deploying code to the server by using GitLab pipelines using concepts of CI/CD.

Research Intern– *Indian Institute of Science, Bengaluru*   Jan 2022 - Aug 2022

• Research on different parameters influencing causes and ways to cure urinary incontinence using existing technology and selecting tools and methods to access and analyze the required data for choosing the appropriate component for designing a cost efficient device.

Data Acquisition Engineer– *Team Chimera, Bengaluru*   Oct 2018 - May 2022

• Worked on a system for collecting data from various parts of the car using CAN protocol and also worked on Battery Management System for acquiring the status of batteries with various parameters.

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, HTML, CSS, JavaScript

Frameworks and Tools: Spring boot, Angular, Android Studio, Git, Firebase

PUBLICATION: Development of Automation Tool for Optimising Floorplan of a Given VLSI Design, 2022 IEEE 19th India Council International Conference (INDICON).

ACHIEVEMENTS/ VOLUNTEERING

• Winner of Chess Tournament in Boeing India Pvt. Ltd 2023

• I eagerly dedicated my time as a substitute teacher for lower primary students in a rural school, under School Bell organisation from Feb-2020 to Mar-2020

• Participated in administering a medical survey in rural areas and educating individuals on the significance of routine check-ups.