SHIVANSH BAKSHI

Undergrad | Software Engineer | AI/ML | Robotics

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SKILLS

Programming Languages
- JavaScript
- C/C++
- Java
- Python
- SQL
- HTML/CSS

Frameworks
- React Js/Native
- Android
- Kubernetes
- ROS
- TensorFlow
- Keras / PyTorch

Tools
- Git
- Maven
- CMake
- Photoshop/Illustrator
- Adobe Premiere Pro

Languages
- English
- Hindi

EXTRA-CURRICULARS

Graphic Design
- Management Committee member at Chords & Co. Manipal
- Responsible for design of posts reaching 1.5k followers on Instagram

Pianist
- Self-trained hobby pianist
- Featured on Chords & Co. Instagram page

EDUCATION

B. TECH - CSE • MIT, MANIPAL • 2019-23 • CGPA: 9.47
Relevant Courses taken:
Design and Analysis of Algorithms, Data Structures and Applications, Object Oriented Programming, Database Systems, Computer Networks, Operating Systems, Big Data Processing

CBSE • 2019 (12TH – 94.8%) • 2017 (10TH – 10 CGPA)

EXPERIENCE

SUMMER INTERN • DEUTSCHE BANK • MAY 22 – JUL 22
Designed and developed a performance testing framework for Java microservices utilizing GCloud Pub/Sub and deployed on Kubernetes on GCP to be integrated into the CI/CD pipeline.

AI MEMBER - PLANNING HEAD • PROJECT MANAS • 2020 – 2022
Implemented Real-time 2D object detection using CenterNet in TensorFlow-Python, wrapped in ROS to work through ZED Camera.
Also built an app to capture and GeoTag high-resolution images at a custom set FPS for AUVSI SUAS competition
Finalists 13 of Mahindra Rise Prize Driverless Car Challenge.

IIT BOMBAY E-YANTRA ROBOTICS COMPETITION • OCT 20–APR 21
Successfully worked in a team to design and develop an automated warehouse system simulated in Gazebo/ROS, utilizing Image Processing and IoT database management with dashboard.
A **certified** demonstration of the same **can be found here**.

PROJECTS

RAW AUDIO TO MIDI CONVERTER • 2021
- Developed a QT/C++ Desktop App running FFT on audio signal to create MIDI files of monophonic melodies.
- Git Repository **can be found here**.
- A Video Demonstration of the app **can be found here**.

BILLING SYSTEM FOR FACTORIES • 2021
- Designed a React Native + Android native app to ease billing process using templatized PDFs. Created for a real company.
- A Video Demonstration of the app **can be found here**.

CLI CHESS • 2021
- Developed Chess for Command Line Interface using C++, made extensively modular for the purpose of understanding CMake.
- Git Repository with Demonstration **can be found here**.