

# Shivansh Bakshi

Software Engineer | shivanshbakshi.dev

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## Experience

May 2022 –  
Jul 2022

### Summer Intern

*Deutsche Bank, Bangalore, KA*

- Developed a custom Performance Testing Framework using Java & Scala into Gatling that allows writing tests for Microservices communicating over Google Cloud Pub/Sub.
- Can use the framework to write performance tests in Java or Scala, specifying random payload generation in XML.
- Detailed report generated at the end of test.
- Deployable on Cloud to integrate into CI/CD pipeline.

Feb 2021 –  
Feb 2022

### AI Planning Head

*Project MANAS, Manipal, KA*

- Lead the AI team with path planning related tasks for AUVSI-SUAS competition.
- Successfully implemented planning algorithms within path constraints.
- Developed an Android App using React Native to capture and Geo-tag high resolution images at a set FPS.

Oct 2020 –  
Apr 2021

### Primary Developer

*e-Yantra Robotics Competition*

- Developed an end-to-end warehouse automation solution.
- Automated placement & sorting of packages using robotic arms.
- Real-time dashboard integration with delivery status.

Feb 2020 –  
Feb 2021

### AI Member

*Project MANAS, Manipal, KA*

- Integrate CenterNet with ROS to provide real-time 2D Object Detection from Zed Camera Interface.
- Object bounding boxes published over a ROS topic.

## Projects

2022

### Personal Website

- Developed personal website using ReactJS + Gatsby for efficient static loading.
  - Integrated with Google Analytics tracking.
- Find it here – <https://www.shivanshbakshi.dev>

2021

### Billing App

- Developed a React Native app with Android Native modules to generate bills from template PDFs.
  - Using local SQLite storage to store frequent customer info.
- Demo - <https://youtu.be/CMZPWKDPfRE>

2021

### Raw Audio – MIDI Convertor

- Created a desktop Qt/C++ app running FFT to detect and store rhythm from real-time input audio as MIDI files.
- Git - <https://github.com/Shivansh-Bakshi/NoteDetection>  
Demo - <https://youtu.be/1x7OmF7Ui8>

## Education

### B. Tech – MIT, Manipal, KA

Computer Science 2019-23

CGPA – 9.47 / 10

### 12<sup>th</sup> – Alpine Public School

Percentage – 94.8% 2019

### 10<sup>th</sup> – Delhi Public School

CGPA – 10 / 10 2017

## Skills

Python

C/C++

HTML/CSS

JavaScript

Java

DBMS

React Js/Native

ROS (Robotics Operating System)

Android Studio

Kubernetes

TensorFlow

Git

Maven

CMake

## Languages

English

Hindi

## Hobbies & Interests

Piano

Self-taught pianist with love for western classical and anime music.

Graphic Design + Video Editing