

# AMAN BILAIYA

## Final Year CSE Undergraduate

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## WORK EXPERIENCE

### Software Development Intern - Student Trainee

#### SAMSUNG R&D INSTITUTE BANGALORE - SRIB

📅 May 2021 – July 2021

📍 Work from home

- Build a tool to automate the process of integration of Qualcomm code with Samsung source code maintained in perforce (P4) server. Mainly merging the Samsung changes to new Qualcomm code release.
- Implemented required Perforce APIs and comparing-merging algorithm in Python3 to perform integration. Also created GUI for the tool to ease use using PyQt5.
- Manual integration takes 2-3 hours of work, that time is saved with this automated process, reducing the developer efforts.

## EDUCATION

### B.Tech in Computer Science Engineering

#### INDIAN INSTITUTE OF TECHNOLOGY ROPAR

📅 July 2018 – Present

📍 Rupnagar, Punjab

- CGPA - 8.11 / 10

12th Standard (CBSE) :: 93.6%

Matriculation (CBSE) :: 9.8 / 10

## PROJECTS

### PGI DOCTOR-PATIENT MANAGEMENT

- Build an android app to provide the concerned collaborator with a centralized app to manage their patient records all at a single place and reduce their effort in maintaining things offline.
- Implemented searching and sorting filters to provide fast patients record lookup. Also build web portal for doctors to ease view of records.

### RAILWAY RESERVATION SYSTEM

- Designed a reservation web portal with functionalities of user login, ticket booking, PNR enquiry and train search engine.
- Used triggers and procedures in addition to key constraints for the implementation of business logic.
- Designed an Admin portal to manage railway system database.

### CAMPUS FACILITY BOOKING APP

- Build an android app to facilitate booking of classrooms, labs and sports complexes by the professors and students of the college.
- Build a web application for admin so that he can manage the database and add/view/edit the facilities.
- Implemented real-time location based attendance system that students can mark for booked classrooms.

### COLOR IMAGE SEGMENTATION

- Implemented Expectation Maximization (EM) Algorithm to segment colored images into multiple distinguishable segments. The images were segmented using EM on a multi-modal Gaussian distribution.

## SKILLS

### Programming Languages

C, C++, Python, Kotlin for Android

### Development

HTML, CSS, JS, PHP, NodeJS\*

### Databases

Google Firebase, MySQL, MongoDB\*

## ACHIEVEMENTS

- ACM ICPC Regionalist 2020 - Team codeX
- TOYCATHON 2021 Grand Finalist - Team ToyX
- Flipkart GRID 3.0 Semifinalists - Software Track
- Part of Microsoft Mars Colonization Program under Microsoft Engage'20
- Among Top 12 open source contributors of BOSS'20 held by Coding Blocks
- Successfully completed Google Foobar Challenge and Hacktoberfest'20
- Secured AIR-2083 in IIT-JEE Advanced 2018

## RELEVANT COURSES

### COMPUTER SCIENCE

- Data Structures • Design & Analysis of Algorithms
- Database Management • Operating Systems
- Computer Networks • Computer Vision
- Computer Architecture • Software Engineering

### MATHEMATICS

- Discrete Mathematics
- Probability and Statistics
- Linear Algebra

## EXTRA CURRICULAR

- Organised online Coding Blocks workshops on Dynamic Programming and Graphs
- Part Of Event Management Team of Zeitgeist'18 and Advitiya'18 IIT Ropar
- Active member of National Service Scheme

## EXTRAS

- Build a doodling platform where people can play doodle based games and can showcase their work.
- Designed and built an AI powered Unbeatable Tic-Tac-Toe webgame using minimax algorithm.

\* - Ongoing / Learning