# Vaibhav Bansal

Ambala, Haryana
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## EDUCATION

- **National Institute Of Technology, Kurukshetra** — Kurukshetra, India
  *Bachelor of Technology - Information Technology; CGPA: 9.404* — *Dec 2020 - June 2024*
- **PKR Jain Sr Secondary Public School, Ambala** — Ambala, India
  *XII - CBSE; Percentage: 92.4* — *April 2018 - April 2019*
- **PKR Jain Sr Secondary Public School, Ambala** — Ambala, India
  *X - CBSE; CGPA: 10* — *April 2016 - April 2017*

## EXPERIENCE

- **Byjus** — Remote
  *MTS Intern (Full-time)* — *Jan 2023 - May 2023*
  - **Content Creation Data Pipeline and Dashboard**: Researched potential solutions for monitoring content production and implemented a Ruby on Rails service that tracks content production **InfluxDB** and **Grafana**, providing real-time data to enable business teams to identify bottlenecks, thus reducing time taken for content creation by **40%**.
  - **Consolidation of Content Creation Platform**: Consolidated the frontend of in-house content management platforms for various services using **ReactJS**, improving the user experience and reducing maintenance costs by 60% while conitnuously collaborating with the business team.
- **Zummit Infolabs** — Remote
  *Web Developer Intern (Part-time)* — *Feb 2022 - June 2022*
  - **Porting HTML UI to React**: Developed UI components using **ReactJs** for a background removal project that removes the background from an image and returns a PNG image.
  - **HR Employee Management System**: Developed **RESTful APIs** using **NodeJS**, **Express**, and **MySQL** for a web application used by the HR department for management purposes.

## PROJECTS

- **Group Attendance System (HTML, CSS, MySQL, Flask)** :  **Github**
  - Led college team of 6 members to create a system that segments and recognises faces from a group shot using Artificial Intelligence and updates their attendance in the database and reduces the time taken to take attendance by **50%**
  - It also provides provision for the addition, updating, and removal of personal information
  - Developed routes using **Flask** and UI using **HTML/CSS** and used **MySQL** to store details of people
- **ContentGram (Ruby on Rails, PostgreSQL)** :  **Github**
  - Developed a full-stack social media platform (Instagram clone) using Ruby on Rails and PostgreSQL, leveraging lazy loading and database indexing
  - Implemented core functionalities for seamless user engagement, including user management, optimized content retrieval with Pagy's **lazy loading** for up to **70% faster initial page loads**, and smooth follow/like/comment interaction.
  - Successfully integrated Devise for secure authentication, enhanced database performance with indexing for 30% faster query execution

## ACADEMIC ACHIEVEMENTS

- Recipient of Director's Merit Scholarship for being in top 3 students in IT branch
- Among top 10 qualifying teams - **Smart India Hackathon** College Chapter
- Among top 1% (99.36 percentile) in JEE Mains 2020 out of more than 10,00,000 students

## EXTRA-CURRICULAR

- Member of the Sponsorship committee, brought 10+ companies on board
- Specialist on **Codeforces**, the most famous website for competitive programming. **Handle: vaibhav35**
- Knight at Leetcode (Top 4.1%) **Handle: vaibhavbansal642**

## SKILLS SUMMARY

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|---|---|
| **Languages**: | Python, C, C++, SQL |
| **Frameworks**: | Ruby on Rails, Flask, NodeJS, React |
| **Tools  Others**: | Docker, GIT, MySQL, PostgreSQL, InfluxDB, Grafana |
| **Soft Skills**: | Leadership, Teamwork, Time Management |
| **Other Skills**: | Operating Systems, Data Structures, Analysis Of Algorithms, Object Oriented Programming (OOPS), |

Computer Networking, Database Management System

## VOLUNTEER EXPERIENCE

**Shiksha (Non-profit organization) :** Taught JEE physics to underprivileged students, 2 out of 3 students got into NITs

**Devsnest (A programmers Community) :** Taught Data Structures in C++ to a community of student programmers for free during the pandemic