

# VIVEK ARORA

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## Education

### BITS Pilani

Aug. 2018 – June 2022

*Bachelor of Engineering(Hons.) in Computer Science*

*Goa, India*

## Relevant Coursework

- Data Structures
- Database Management
- Computer Networks
- Computer Architecture
- Algorithms Analysis
- Artificial Intelligence
- Operating Systems
- Compilers

## Experience

### AlmaConnect

May 2020 – August 2020

*Product Intern*

*New Delhi, India*

- Set up a personalized user invite system which increased sign-ups by 30 percent.
- Migrated stored SQL procedures to the SSRS system to allow for server improvements.
- Lead the design and development of the "Job Status" feature on the portal enabling users to get updates about their applications.

### Abhigyaan (Non Profit)

Jan 2019 – August 2019

*Web Developer*

*Goa, India*

- Assisted in development of the front end of a website using React framework.
- Worked with Google Firebase to manage user inputted data.
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.

## Projects

### Covid 19 Vaccine Scheduler Bot | *Python, Selenium, Google Cloud Console*

- Developed an automatic bot using Python and Google Cloud Console to register for a Vaccine.
- Implemented Selenium to create an instance of Chrome in order to interact with the correct elements of the web page.
- Created a Linux virtual machine to run on Google Cloud so that the program is able to run from the cloud.

### Intruder Alert System | *Python, C++, OpenCV*

- Created an desktop application that monitors real-time video feed from a connected camera.
- Video feed is subjected to Morphological Transformations (eroded) and contours are drawn of the body where movement is detected.
- If movement crosses set threshold, an alarm is rung and owner is alerted of breach via phone and a text message using Twilio API.

### Netflix Clone App | *React, GraphQL*

- Created a replica Web application of Netflix using React and GraphQL.
- Processed user inputted information in the back-end of the app to return movie title of choice.
- Also supports features such as infinite scroll and paging.

### Transaction Management System | *Java, Eclipse, JavaFX*

- Designed a sample banking transaction system using Java to simulate the common functions of using a bank account.
- Used JavaFX to create a GUI that supports actions such as creating an account, deposit, withdraw, list all accounts, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

## Technical Skills

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

**Developer Tools:** VS Code, Eclipse, Google Cloud Platform

**Technologies/Frameworks:** Linux, Jenkins, GitHub, JUnit, WordPress

## Leadership

### Computer Science Department

Jan 2021 – Nov 2021

*Student Representative*

*BITS Pilani*

- Managed executive board of 5 members and ran weekly meetings to oversee running of courses and student led tutorials.
- Led an external Lab to supplement theoretical learning in Database Systems course.
- Received an Excellence certificate for tutorials as First Degree Teaching Assistant for Database Systems.