

# CRUX

## THE PROGRAMMING AND COMPUTING CLUB



# About Us

We cover all things programming and computing

We are a community of people who ❤️ programming

<https://crux-bphc.com>

# We Cover All Things Programming

-  Competitive Programming
-  CTFs and Cyber Security
-  Design (UI/UX)
-  Web Development
-  Systems Programming
-  Machine Learning
-  App Development
-  Game Development

... and many more domains

# Contests and Workshops

We organize workshops and contests for students.

- Bootstrap (CC Workshop)
- Binary Battles
- CruXipher

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Keep an eye out for us in the upcoming ATMoS tech fest!

# Summer Groups

We hold *Summer Groups* for:

- Competitive Coding
- Web Development
- UI/UX
- Flutter
- Python
- Game Development
- Machine Learning

## ACM-ICPC

- Team `codeCruXaders` participated in the **World Finals** of ICPC
- Team `codeCruXaders` - **21st Rank at Pune/Gwalior Regionals**

## CTF

- **10th** in India according to CTFtime leaderboard.

## GSOC 2024

- **Dart** - a scalable language for apps on any platform
- **UC OSPO** - open source initiative by the University of California

# Progress

 Overview    Repositories 56    Projects

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**CRUX**  
The Programming & Computing Cl  
53 followers    Hyderabad   



**CRUX**  
The Programming & Computing Club  
86 followers    Hyderabad   

# Projects

# ChronoFactorem

Helped 2.2k users make 3.2k timetables in two days. Hopefully helped you during and after registration.

Welcome to  
**ChronoFactorem**

@ Login with Google

About ChronoFactorem

Powered by CRUX: The Programming and Computing Club of BITS Hyderabad

# Summer Groups 2024

Resources and Exercises we've put together for our annual Development Summer Group, aimed at helping you master the concepts in Web Dev, UI/UX and Machine Learning.

<https://github.com/crux-bphc/dev-summer-group-2024>



# Bootstrap 2024

Resources and Exercises compiled for Bootstrap Summer Group 2024, in order to guide people looking to learn Competitive Programming.

<https://github.com/crux-bphc/crux-bootstrap-2024>



# Rideshare App

Say goodbye to the hassles of solo travel with our comprehensive app that seamlessly connects students looking to share rides to and from the campus.



App

The image displays two side-by-side screenshots of a mobile application. The left screenshot shows the 'Create Trip' screen with fields for 'Enter from place' and 'to', and a section for 'Enter to place'. It includes date and time pickers for 'Start Limit' (26th July, 3:01 AM) and 'End Limit' (26th July, 3:31 AM), a dropdown for 'Seats available' (set to 1), and a text input for 'Enter a description'. A button at the bottom right says 'Slide to confirm'. The right screenshot shows a search bar at the top followed by a list of six ride offerings. Each listing includes a purple circular icon with a letter (B, P, S, V, R), the route ('Airport TO Campus'), the date ('26th July' through '30th July'), the time range, and the number of seats available (2 or 3). The bottom navigation bar features icons for Home, Message, Plus, and Profile.

Route	Date	Time	Seats Available
Airport TO Campus	26th July	10:30 AM - 12:00 PM	2 seats available
Airport TO Campus	27th July	7:30 PM - 8:00 PM	3 seats available
Airport TO Campus	28th July	11:50 AM - 12:20 PM	2 seats available
Airport TO Campus	30th July	9:30 AM - 11:00 AM	3 seats available
Airport TO Campus	30th July	6:00 PM - 7:00 PM	3 seats available

# Chronoscript

The beating heart of  
chronofactorem with features such  
as free days, prof preferences,  
recommendations, etc.

<https://github.com/crux-bphc/chronoscript>



# In Progress

Stuff we are working on

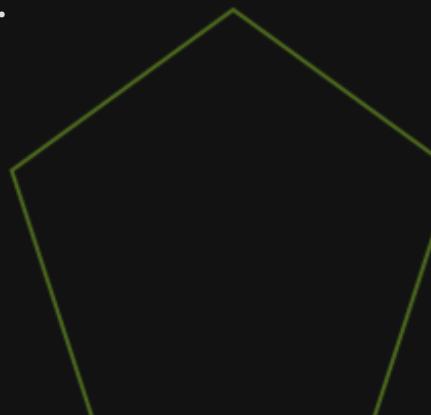
# Lex

An all in one app for all your academic needs.



# BitsGPT

Your campus buddy chatbot for advice, resources and making student life easier.



## BitsGPT v1.0.0

**BitsGPT:** Hello! I'm BitsGPT, the campus buddy chatbot for making your student life easier. Feel free to ask me anything!

**You:** can you recommend some nice things to do on campus

**BitsGPT:** Sure! You can check out the Smart Campus features like the All Night Canteen and ordering merchandise. Explore the campus and familiarize yourself with class locations, especially F and G Blocks. Visit Connaught Place (CP) to discover the variety of products sold in each store. Don't forget to strike a balance between attending classes and participating in clubs, sports, or other activities. And of course, indulge in some delicious food and chocolates at the busy spots on campus. Happy exploring! Sources: - Document 1: data\witw.md - Document 2: data\witw.md

Type your message...



\* BitsGPT may display inaccurate info so double-check its responses.

# Torrent Client

A Torrent Client written from scratch in pure Rust.

# LUMOS

A game engine written completely from scratch in C++ using OpenGL.

"work hard bro one day you got 7\* coder  
codechef, international grandmaster on  
codeforces your cp skill beat Sundar  
Pichai and you become next CEO in  
google"

Karthik Prakash, Dev Secretary

## How do I join CRUX?

CRUX holds inductions every semester to recruit new members.

### CRUX CC

A Competitive Programming contest is held to induct new members

### CRUX DEV

You submit a link of your work and candidates are interviewed in a 3-step process

### CRUX CTF

A CTF contest is used to judge your proficiency

# Skills Required?

- A love for programming
- Effort

We are one of the only clubs that give you feedback on your work so that you can perform better next time.



# Is it too late to start?

We hold Workshops year-round to help acquaint people with programming. We induct people from any year!

# P0Rs

**President**

Mudit Somanı

**CC Secretary**

Varun Reddy

**Dev Secretary**

Karthik Prakash

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# Thank You

Hope to see you at inductions