

# JAY NAKUM

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## EXPERIENCE

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### CSE Summer Intern (Hybrid)

eInfochips (An Arrow Company)

May 2023 - June 2023  
Ahmedabad, Gujarat, India

- Worked as a team leader.
- Our team developed a full e-commerce website from scratch.
- We worked on 4 research based tasks.
- The important learnings were leadership skills, teamwork, communication.  
Got a great experience of how to work in industry.

### Flutter Intern (Remote)

vigIT Solutions

Jun 2022 - Sept 2022  
Jaipur, Rajasthan, India

- Worked in agile software development model.
- Helped the team develop and publish 2 flutter apps.
- [Completion Letter](#)

## PROJECTS

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### Ray Tracer — C++, CUDA

[GitHub](#)

- Learning ray tracing and gpu programming in CUDA.
- Implemented different basic materials such as diffuse, metals and dielectrics.

### Happy Face — C++, OpenGL

[GitHub](#)

- Developing a scene based opengl renderer, merging all the bits and pieces into one project.
- Implemented shaders, textures, transformations and coordinate systems, lighting, model loading.

### BitNCrypt (University Project) — C++

[GitHub](#)

- Designed an algorithm based on the similar concepts of hashing.
- It can be used to generate and manage passwords.

### Out For Delivery — C++, OpenGL

[GitHub](#)

- Implemented all the basic knowledge of opengl and 2D graphics.
- A pocket tanks like game where you shoot delivery packages.

### CPU Scheduling Simulator (University Project) — Python, Flutter, Firebase

[GitHub](#)

- Developed a simulator for cpu process scheduling algorithms.
- Implemented algorithms such as FCFS, SJF, SRTF and RR.

### LiViD (University Project) — Flutter, Firebase

[GitHub](#)

- Developed a live streaming app using Agora SDK.
- This project won 2nd place in SSIP competition for Saurashtra Kutch Region, Gujarat.

### eXPe — Flutter, SQLite

[GitHub](#)

- Published a simple expense tracker on [google playstore](#).

## EDUCATION

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<b>Pandit Deendayal Energy University (School of Technology)</b> Bachelor of Technology - Computer Science and Engineering - 9.85 CGPA	Gandhinagar, Gujarat Aug 2021 - Present
<b>A. V. Parekh Technical Institute (Gujarat Technological University)</b> Diploma - Computer Engineering - 9.74 CGPA	Rajkot, Gujarat Aug 2018 - Jun 2021
<b>Kendriya Vidyalaya (Central Board of Secondary Education)</b> Class 1 to 10 - 85.6%	Rajkot, Gujarat Apr 2008 - Mar 2018

## SKILLS

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<b>Tech</b>	C++, OpenGL, GLSL, CUDA, Python, Flutter, Firebase, SQL
<b>Developer Tools</b>	Git, GitHub, Visual Studio, VS Code, Android Studio
<b>Operating Systems</b>	Linux (Manjaro / Arch), Windows, Android
<b>Fields</b>	Computer Graphics, GPU Architectures and Programming, Algorithms, Game Engines
<b>Soft Skills</b>	Problem Solving, Time Management, Teamwork, Leadership, Accountability, Explaining and Teaching, Communication

## AWARDS AND CERTIFICATIONS

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- [NPTEL: GPU Architectures and Programming](#)
- [EDX: UCSD CSE167x: Computer Graphics](#)
- [UDEMY: Flutter and Dart - The Complete Guide](#)
- [TRINITY, LONDON: Grade 4 - Theory of Music](#)

## ROLES AND RESPONSIBILITIES

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- Technical Head — Computer Society of India, Student Chapter PDEU
- Application Development Lead — Google Developer Students Club, PDEU
- General Secretary — The Hackers Meetup, Student Chapter PDEU
- Application Development Head — Encode, Students Club PDEU

## LANGUAGES

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- English (Professional proficiency)
- Hindi (Professional proficiency)
- Gujarati (Native proficiency)

## HOBBIES AND INTERESTS

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Guitar Playing, Music Theory, Singing, Music Composing, Staff Notations, Orchestration, Harmonizing, Voicing, Digital Image Processing, Compiler Designing, Cryptography, Theory of Computation, Mathematics, Learning