

# JAY NAKUM

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## EXPERIENCE

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### Flutter Intern (Remote)

vigIT Solutions

Jun 2022 - Sept 2022

*Rajasthan, India*

- Developed and published 2 flutter apps.
- Worked in agile software development model.
- [Completion Letter](#)

## PROJECTS

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**Happy Face** — Computer Graphics and Game Engines — C++, OpenGL

[GitHub](#)

- Scene Based OpenGL Renderer. Primarily a playground to experiment and dive deep into advance concepts.

**ZapDecrypt** — Algorithms and Cryptography — C++

[GitHub](#)

- Demonstrates a concept that how an executable file can be protected from disassembly.
- It is based on a very small cryptography technique designed by me called CogMaze.

**BitNCrypt** — Algorithms and Cryptography — C++

[GitHub](#)

- A hashing based encryption algorithm used to generate and manage passwords. [University Project]

**Out For Delivery** — Computer Graphics and Game Development — C++, OpenGL

[GitHub](#)

- A basic pocket tanks like game where the ordered packages are delivered via a cannon.

**Cpp Log** — C++

[GitHub](#)

- A simple header only C++ logging library with filter levels and timestamps.

**CPU Scheduling Simulator** — Algorithms and Flutter Development — Python, Flutter, Firebase

[GitHub](#)

- A simulator for OS process scheduling algorithms with Python and Flutter. [University Project]

**Breakout** — Game Development and Object Oriented Programming — Java, Swing

[GitHub](#)

- Recreated the bricks breaker game.

**Snake** — Game Development and Object Oriented Programming — Java, Swing

[GitHub](#)

- Clone of the classic nokia snake game.

**Flappy Bird Clone** — Game Development and Object Oriented Programming — Java, Swing

[GitHub](#)

- Made a flappybird clone in Java with a friend.

**Wave** — Game Development and Object Oriented Programming — Java, Swing

[GitHub](#)

- My very first game. Learnt from youtube.

**LiViD** — Flutter Development — Flutter, Firebase, Agora

[GitHub](#)

- Developed a live streaming app with one to many calling sessions using agora SDK. [University Project]

**eXPe** — Publishing and Flutter Development — Flutter, SQLite

[GitHub](#)

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

## EDUCATION

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**School of Technology (Pandit Deendayal Energy University)**  
Bachelor of Technology - Computer Science and Engineering - 9.85 CGPA

Gandhinagar, Gujarat  
Aug 2021 - Present

**Shree Amrutlal Veerpal Parekh Technical Institute (Gujarat Technological University)** Rajkot, Gujarat  
Diploma - Computer Engineering - 9.74 CGPA

Aug 2018 - Jun 2021

**Kendriya Vidyalaya (Central Board of Secondary Education)**

Class 1 to 10 - 85.6%

Rajkot, Gujarat

Apr 2008 - Mar 2018

## SKILLS

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<b>Tech</b>	C++, OpenGL, GLSL, Python, Flutter, Dart, Firebase, Java, C (Programming Language), SQL, PL/SQL, LibGDX
<b>Developer Tools</b>	Git, GitHub, Visual Studio, VS Code, Google Colaboratory, Jupyter Notebook, Eclipse, Android Studio, Canva, MySQL Workbench, Visual Paradigm, LaTeX
<b>Operating Systems</b>	Linux (Manjaro / Arch), Windows, Android
<b>Fields</b>	Computer Graphics, Game Engines, Graphics Programming, Algorithms, Research, Data Structures, Artificial Intelligence, Machine Learning, Flutter Development
<b>Soft Skills</b>	Problem Solving, Time Management, Teamwork, Leadership, Accountability, Explaining and Teaching, Communication

## AWARDS AND CERTIFICATIONS

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- [UCSD CSE167x: Computer Graphics](#)
- [Flutter and Dart - The Complete Guide - UDEMY](#)
- [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, Game Engines, Algorithms, Compiler Designing, Cryptography, Theory of Computation, Mathematics, Learning