# **Dhruv Patel**

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# **EDUCATION**

**Dharmsinh Desai University** 07/2019 - 05/2023

B. Tech in Computer Engineering CPI: 7.62

Ashwamegh Vidhyalaya 06/2018 - 05/201912th Board (Science PCM) Percentage: 86.3%

Shri Saraswati Vidhyamandir, Valsad, Gujarat 06/2016 - 05/2017

10th Board Percentage: 76.3%

## **WORK EXPERIENCE**

## **Matrix Comsec Private Limited**

01/2023 - Present Engineer - Software Development (R&D-I) Vadodara, Gujarat

- · Proficient in designing and developing client-based Windows and Streaming applications that communicate with servers using socket programming, and skilled in using VC++ within the MFC framework to create robust software, including thorough documentation.
- Collaborated with the development team to implement efficient solutions, resulting in improved product quality.
- Identified and fixed bugs in the Smart Client, ensuring optimal functionality and user experience.
- Led the refactoring of the playback setting bar for the company's flagship product, Smart Client, used for video playback controls.
- Acquired proficiency in using FFmpeg to decode audio and video.
- Gained experience in **OpenCV** for manipulating video data.
- Learned and applied MFC (Microsoft Foundation Classes) and VC++ for Windows application development.

# **PROJECTS**

#### **P2P Chess Game (Pear Runtime)**

- Developed a serverless, real-time peer-to-peer chess game using Hyperswarm for P2P connectivity.
- Implemented js-chess-engine for game logic, move validation, and state synchronization.
- Designed a feature-rich UI with valid move highlighting, in-game chat, and automatic board orientation.
- Utilized an event-driven architecture to ensure smooth and low-latency gameplay.
- Optimized network performance with message serialization and cryptographic security.
- Tech Stack: JavaScript, HTML5, CSS3, Hyperswarm, Hypercore-Crypto, Pear, b4a.

#### **SKILLS**

• Languages: C, C++, Python, JavaScript

• Libraries: OpenCV, FFmpeg, Tkinter

• Tools: Git. GitHub

• Technologies: MFC, Socket Programming

## **INTERESTS**

Chess