

DEV PATHAK

B.Tech CSE-Core | VIT Bhopal University

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[Portfolio](https://devpathak699-learner.github.io/my-profile/profile/profile.html) (https://devpathak699-learner.github.io/my-profile/profile/profile.html) |

[GitHub](https://github.com/devpathak699-learner) (https://github.com/devpathak699-learner)



EDUCATION

VIT Bhopal University

2024 – 2028

B.Tech in Computer Science and Engineering (Core)

Colonel Central Academy, Gurugram

Completed

CBSE Class 12th (Senior Secondary)

80.2 %

PROJECTS

Campus Course & Records Manager (CCRM)

Java SE

- Developed a console-based Java application to manage institute records, including student enrollment, course assignments, and transcript generation.
- Implemented core OOP principles such as Encapsulation, Inheritance (Person to Student/Instructor), and Polymorphism for transcript rendering.
- Engineered a robust file utility system using Java NIO.2 and Streams to import/export data from CSV files and perform recursive backups.
- Integrated advanced features including Design Patterns (Singleton & Builder), custom exception handling for credit limits, and Lambda expressions.
- Built a menu-driven CLI workflow utilizing enhanced switch statements and decision structures for seamless user interaction.

Personal Portfolio Website

Web Dev

- Developed a responsive personal profile website to showcase academic qualifications, technical skills, and professional identity.
- Integrated interactive elements including a dynamic "Show Qualification" toggle and a custom signature drawing canvas.
- Implemented a contact form with validation for streamlined communication and session appointments.

Flexible Inventory Management System

Python, SQLite, Tkinter

- A professional, adaptable inventory management system that demonstrates advanced software engineering principles.
- Flexible architecture adapts to different business requirements (Warehouse, Retail, Library, etc.) without code duplication.

- Showcases Clean Architecture, Design Patterns (Configuration, Factory, Observer), and professional practices like virtual environments and testing.

SKILLS

Languages: Python, Java, C++, C

Data Structures: Array, Stack, Queue, Linked List, Strings, Bit Manipulation

Algorithms: BFS, DFS, A*, Dijkstra, Kruskal's, Prim's, Linear/Binary Search, Bubble/Merge/Quick/Heap Sort

Technical Concepts: OOP (Inheritance, Abstraction, Polymorphism), Java NIO.2, Stream API, Design Patterns

ACHIEVEMENTS

- Successfully maintained a consistent academic record at VIT Bhopal University.
- Developed expertise in complex algorithmic pathfinding, graph traversal, and Minimum Spanning Trees.
- Built a comprehensive Java SE application demonstrating advanced software architecture and data persistence.