

# Shushant Gaur

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## EDUCATION

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### Army Institute of Technology

*B.E. in Computer Engineering: 9.3 SGPA (Sem 1-5)*

Pune, Maharashtra

*July. 2019- present*

### Kendriya Vidyalya Binnaguri cantt

*12th Class - 89 percent*

Binnaguri, West Bengal

*July 2016 – May 2017*

### Kendriya Vidyalya S.O.G. cantt

*10th Class - 9.8 CGPA*

Suratgarh, Rajasthan

*July 2014 – May 2015*

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ

**Libraries:** Pandas, NumPy, Matplotlib

## PROJECTS

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### SECURITY(using color and armstrong number) *Python, Encryption, Decryption, Threading, File Chunking*

- Applied Cryptography from An **IEEE paper**
- Uses **color combination** to produce **encryptions** and Decryptions
- Over **16,000,000** Combination to crack from.

### PYGAME PROJECTS | *Pygame, Python, Interface, UI*

- **Snake Xenzia Game:** This is famous snake game from Nokia series. Snake can pass through edges.
- **Space Invaders:** Interactive game where you must survive against the enemy. At any given time 6 enemies are present on screen. **Background music available**
- **Snake Ladder:** Interactive GUI. Shows the **current path** travelled by each player. Available with background music.

### SHOPPING PORTAL | *Data Structure, Doubly Linked List, OOP*

- Different interface for common user and administrator
- facility to **add, remove, update, delete** items from shop etc
- uses **Doubly linked list** for implementation

### MINI-PROJECTS

**Tic-Tac-Toe**

**Antaakshri(with Bot)**

**Digital Signature Encryption**

## COURSEWORK

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**DSA:** Array, Stack, Queue, Linked List, Tree, Graph, Recursion, BST, Generic Tree, etc.

**Object Oriented Programming:** Introduction, Class, Objects, Encapsulation, Abstraction, Polymorphism, Inheritance, etc.

**DBMS:** ER Model, Functional Dependencies, Normalisation, Normal Forms, B trees, B+ trees, etc.

**OS:** Process Scheduling, Process Synchronisation, Deadlock, Memory Management, Disk Scheduling, etc.

## ACHIEVEMENTS

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Merit Cum **Scholarship** and Army Welfare Education Scheme **Scholarship** Holder

**Specialist** at Codeforces(Max rating **1424**)

**4 star** at CodeChef

**6 star and 5 star in DSA and SQL at Hackerrank respectively**

## LEADERSHIP AND EXPERIENCE

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Member of **Coding Cell** and **Tech Board** in First year

**Joint Sec.** of Tech Board in Second Year. Supervised Various Competitions on College Level