

Shashwat Kathuria

Computer Science
& Engineering,
IIT Jodhpur

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Home : New Delhi, India

Indian Institute Of Technology, Jodhpur
Bachelor Of Technology (Expected 2021)
Sophomore, 4th Semester
CGPA : 9.00/10 (Till 3rd Semester)

Interests

- Deep Learning
 - Cryptography
 - Android Application & Web Development
 - Data Structures And Algorithms
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Technical Skills

WEB DEVELOPMENT

- | | |
|--------------|--------------|
| - Django | - Flask |
| - HTML / CSS | - JavaScript |
| - PostgreSQL | - SQLite |
| - Bootstrap | - Jinja |

PROGRAMMING LANGUAGES

- | | |
|----------|-----------------------|
| - Python | - Java / Android Java |
| - C++ | - C |

UTILITIES

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| - Git | - SSH |
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Projects

Natural Language Processing / Deep Learning

MARCH 2019 - PRESENT

Making an accurate Hindi Part of Speech tagger model using Hidden Markov Model and **Natural Language Toolkit (NLTK)** in **Python**, which currently remains an open problem.

IITJ HealthCare Centre / Software Engineering, Web Development

JANUARY 2019 - PRESENT

An online health care assistance portal made using **Django (Python)** and **Bootstrap (HTML / CSS / JavaScript)** to help students get online prescriptions from doctors and availability regarding medicines through medical store.

Disaster Safety App / Android Application, Web Development

OCTOBER 2018

Programmed an android and web application to broadcast and get online alerts regarding earthquakes, floods and hurricanes by communicating to the server, using **Flask (Python)** and **Android Studio (Java)**.

Cryptography / Python, C

SEPTEMBER 2018 - JANUARY 2019

Analyzed and programmed CBC **Padding Oracle** attack, hash verification of videos using **SHA-256**, CBC and CTR Modes **AES Decryption**, **Many Time Pass** hack along with a guessing heuristic, and various historic ciphers as a part of Cryptography I course under Professor Dan Boneh.

Data Structures And Algorithms / Python, C++, C

JUNE 2018 - PRESENT

Programmed a total of 35 programs (and growing) in **Python**, **C++** and **C**, a major part of which was of the Stanford University Data Structures and Algorithms Specialization under Professor Tim Roughgarden.

Drag v/s Normal Projectile / PyLab - Python

FEBRUARY 2018

Graphical comparison of drag and normal particle projectiles using **PyLab** library in **Python**.

Extra Courses

Data Structures And Algorithms Specialization / Stanford University

- Divide and Conquer, Sorting and Searching & Randomized Algorithms
MAY 2018
- Graph Search, Shortest Paths & Data Structures
JUNE 2018
- Greedy Algorithms, Minimum Spanning Trees & Dynamic Programming
JULY 2018
- Shortest Paths Revisited, NP-Complete Problems & What To Do About Them
JULY 2018

Cryptography I / Stanford University

AUGUST 2018 - DECEMBER 2018

MIT 6.00.1x, Introduction to Computer Science and Programming Using Python / Massachusetts Institute of Technology

FEBRUARY 2018 - APRIL 2018

MIT 6.00.2x, Introduction to Computational Thinking and Data Science / Massachusetts Institute of Technology

MAY 2018 - JUNE 2018

CS50, Introduction to Computer Science / Harvard University

FEBRUARY 2018 - MAY 2018

CS50, Web Programming with Python and JavaScript / Harvard University

NOVEMBER 2018 - FEBRUARY 2019

Android Specialization / Google, Udacity
JANUARY 2019 - PRESENT

Education

G. D. Goenka Public School, New Delhi

Class 12

2017

Central Board Of Secondary Education : **96%**

Class 10

2015

Central Board of Secondary Education : **9.6 / 10**

Scholastic and Extracurricular Achievements

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- Former State Level Football Player, New Delhi
 - Football Inter - Zonals Winner, New Delhi
 - 4 - Time School Level Athletics Record Breaker
 - SAT Subject PCM Perfect Scorer - 2400 / 2400
 - SAT Score - 2100 / 2400
 - 3 - Time Scholastic Excellence Awardee
 - School Topper, Class 12 CBSE Exams
 - Participated in Various Olympiads, Trekking Camps

Positions of Responsibility

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- Vice Sports Captain, Class 11
 - Sports Captain, Class 12
 - Participated in Various NGOs
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