

# Aman Roy

Computer Science Undergrad

Pune, Maharashtra, India

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## Projects

AUG 2019– **NOTAS**, *A Notes sharing platform.*

- Ongoing
- A web application implemented in Django 2.x to make notes sharing hassle free.
- Front-end is made using HTML/CSS/JS and Materializecss framework.

Project link - [github.com/aman-roy/Notas](https://github.com/aman-roy/Notas)

JUN–JUL **EXSC**, *Extended Substitution Cipher.*

- 2019
- Implementation of a new kind of cipher based on substitution cipher. It uses PRNG for generating deterministic multiple tables for encryption.
- Packaged it using PyPI and can be installed using pip.

Project link - [github.com/aman-roy/Extended-Substitution-Cipher](https://github.com/aman-roy/Extended-Substitution-Cipher)

MAR 2019 **Automatic Active Server Communication Alerts**, *Hackathon Project.*

- Flask and celery based responsive web application for checking the network breakdowns of multiple websites in a simplified way.
- In case of receiving the critical status codes from the website or the server crash, the acknowledgements will be send using SMS API to the maintainer of the website.

Project link - [github.com/Code-Blooded-007/Backend](https://github.com/Code-Blooded-007/Backend)

JAN–MAR **Movie Booking Management System**, *OOPS Lab Project.*

- 2019
- Project is implemented in C++ and can be used for managing all the movie booking related data.
- Terminal based application with a very user friendly environment.

JUL–SEP **BloodBank**, *DS Lab Project.*

- 2018
- BloodBank management system developed in C language to do book keeping and data manipulation.
- Most of the core data structures are implemented in a very optimal way.

Project link - [github.com/aman-roy/BloodBank](https://github.com/aman-roy/BloodBank)

FEB–MAR **Auto FB Confess**, *Personal Project.*

- 2018
- A simple flask based app which helps in posting to Facebook pages automatically.
- It can be used to post directly to Facebook pages without any use of middle man with the help of FB SDK API.

Project link - [github.com/aman-roy/Auto-FB-Confess](https://github.com/aman-roy/Auto-FB-Confess)

MAY–OCT **Stalkhub**, *Personal Project.*

- 2017
- StalkHub is a flask-based web app which uses GitHub api v3 to retrieve users data and renders it beautifully.

Project link - [github.com/aman-roy/StalkHub](https://github.com/aman-roy/StalkHub) Working live - [stalkhub.amanroy.me](http://stalkhub.amanroy.me)

Feb 2016 **mp3\_Downloader**, *Personal Project.*

- A simple python script from which you can download the songs by just entering the name.
- You can also download by entering a list of name, YouTube link or list of YouTube links.

Project link - [github.com/aman-roy/mp3\\_downloader](https://github.com/aman-roy/mp3_downloader)

## Education

2017–Present **G.H. Rasoni College of Engineering and Management, Pune.**

Computer Engineering Bachelors of Technology, CGPA – 9.22/10

Expected Graduation Year - 2021

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## Publication

SEPT 2019 **R. Aman et. al., "Advancement on Substitution Cipher using Multiple Substitution Table" 2019 5th (ICCUBE), Pune, India, ©IEEE.**  
Accepted for publication

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## Achievements

2019 **Ranked 7<sup>th</sup>** in Python developer section and **3<sup>rd</sup>** in HTML ranking on GitHub in Pune, India  
2019 Runner up in "**Smart India Hackathon** - Software edition" among **2 lacks+** participants.  
2019 Got **1<sup>st</sup> prize** in College level programming competition "Codebuzz".  
2018 Got **2<sup>nd</sup> prize** in mini modeling competition organized for first year students.  
2018 **Semi finalist** in blackout coding organized by MIT-ADT University.  
2018 Got **1<sup>st</sup> prize** in research paper presentation in National level competition TRPCS and won cash prizes.  
2018 Reported a security flaw in **Amazon India website** that enables user to opt for pay on delivery option even when it is not available in that area.  
2013 Got Qualified for **NMCMSE Scholarship** and received financial help for **4 years** from state government.

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## Technical Skills

Languages C, C++, Python, PHP, Shell script  
Frameworks Django, Flask  
Front-end HTML/CSS/JS, Bootstrap, Materializecss  
Databases MySQL, SQLite  
Core DS and Algorithms, Cryptography  
VCS Git, GitHub, Bitbucket

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## Additional Training

JUN **Introduction to Computer Science and Programming Using Python** , *edx.org*.  
2018–NOV MITx: 6.00.1x  
2018 This course is the first of a two-course sequence: Introduction to Computer Science and Programming Using Python, and Introduction to Computational Thinking and Data Science.  
Completed with **95/100** marks. Certificate - [tiny.cc/amanmitx](http://tiny.cc/amanmitx)  
AUG **CS50's Introduction to Computer Science**, *edx.org*.  
2016–MAR HarvardX - CS50  
2017 Harvard University's introduction to the intellectual enterprises of computer science and the art of programming.  
Completed with **100/100** marks.  
Certificate - [tiny.cc/amancs50](http://tiny.cc/amancs50)

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## Extra Curriculum Activities and Positions

2019 **Peer teaching** done for Object Oriented Programming for S.Y.B.tech students for a semester.  
2019 Attended **Blockchain conference** organized by **TRAI** in Pune, India.  
2019 **3 times** Hacktoberfest contributor and won goodies.  
2018 **Web manager** in GHRCEM's technical event "**Technowave**" and responsible for all the website related tasks.  
2018 Won **debate competition** two times in a row with **1<sup>st</sup> and 2<sup>nd</sup> position** in college level competition.  
2017 Attended "**PYCON INDIA 2017**" in New Delhi, India.

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## Personal Details

Language English, Hindi, Bhojpuri  
Hobbies Speed cubing, Reading Books, Competitive programming, Open source contribution