

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

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

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

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 is 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

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

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 Working live - 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

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

Publication

SEPT 2019 **R. Aman et al., "Advancement on Substitution Cipher using Multiple Substitution Table" 2019 5th (ICCUBEA), Pune, India, ©IEEE.**
Conference paper link - ieeexplore.ieee.org/document/9128664

Achievements

2019 **Ranked 7th** in Python developer section and **3rd** in HTML ranking on GitHub in Pune, India
2019 Runner up in "**Smart India Hackathon** - Software edition" among **2 lacks+** participants.
2019 Got **1st prize** in College level programming competition "Codebuzz".
2018 Got **2nd prize** in mini modeling competition organized for first year students.
2018 **Semi finalist** in blackout coding organized by MIT-ADT University.
2018 Got **1st 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.

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

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
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

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 **1st and 2nd position** in college level competition.
2017 Attended "**PYCON INDIA 2017**" in New Delhi, India.

Personal Details

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