Aman Roy

Computer Science Undergrad

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Projects

AUG 2019– Ongoing — **NOTAS**, *A Notes sharing platform.*
- 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 2019 — **EXSC**, *Extended Substitution Cipher.*
- 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 2019 — **Movie Booking Management System**, *OOPS Lab Project.*
- 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 2018 — **BloodBank**, *DS Lab Project.*
- 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

FEB–MAR 2018 — **Auto FB Confess**, *Personal Project.*
- 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 2017 — **Stalkhub**, *Personal Project.*
- 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. Raisoni 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.**
Accepted for publication

Achievements

2019 **Ranked 7$^{\text{th}}$** in Python developer section and **3$^{\text{rd}}$** in HTML ranking on GitHub in Pune, India

2019 Runner up in "**Smart India Hackathon** - Software edition" among **2 lacks+** participants.

2019 Got **1$^{\text{st}}$ prize** in College level programming competition "Codebuzz".

2018 Got **2$^{\text{nd}}$ prize** in mini modeling competition organized for first year students.

2018 **Semi finalist** in blackout coding organized by MIT-ADT University.

2018 Got **1$^{\text{st}}$ 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 2018–NOV 2018 **Introduction to Computer Science and Programming Using Python** , *edx.org*.
MITx: 6.00.1x
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 2016–MAR 2017 **CS50's Introduction to Computer Science**, *edx.org*.
HarvardX - CS50
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 **1$^{\text{st}}$ and 2$^{\text{nd}}$ 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