

# Anubhav D. Patel

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## EDUCATION

### INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KALYANI

**BTECH IN COMPUTER SCIENCE**

Expected 2021 | Kolkata, India

Cum. GPA: 9.6

### KENDRIYA VIDYALAYA IIT MUMBAI

Mumbai, India

## LINKS

Github://[anubhavp28](https://anubhavp28)LinkedIn:// [anubhavp28](#)Codechef:// [anubhavp28](#)Medium:// [anubhavp28](#)

## COURSEWORK

### UNDERGRADUATE

Design And Analysis of Algorithms

Computer Organization and Architecture

Formal Language and Automata Theory

Data Structures

Programming with C

Discrete Maths

Probability and Statistics

## SKILLS

### PROGRAMMING

Python • C • C++ • JavaScript • Octave

CSS3 • PHP • MySQL • MongoDB •

PostgreSQL • Redis • HTML5 •

Assembly •  $\LaTeX$  • Bash Scripting •

Linux • Flask • Django

Familiar :

Android • NodeJS • Electron

## HACKATHONS

### HACK-A-BIT 2018

- 6th Prize Winner ( out of 50 teams )

### HUMBLEFOOL CHARITY HACKATHON 2017

- Successful Participation

## WORK EXPERIENCE

### THE BOMWAY | FULL-STACK DEVELOPER - INTERN

Dec 2018 – Present | Flask, MongoDB, Bootstrap, Python, JavaScript, HTML, CSS

- Implemented a e-commerce shopping cart with support for multiple payment gateways, the option to offer discounts, ability to calculate international shipping cost, and elegant design.
- Implementing a microservice to deliver images without exposing the underlying store, and consequently supporting their migration to AWS.
- Performed Search Engine Optimization for their website.
- Discovered and fixed two distinct vulnerabilities concerning user authentication and order placement, in their codebase.

## PROJECTS

### SHORTIFY | A URL SHORTENING MICROSERVICE | [LINK](#)

Python, Redis, Postgresql, SQLAlchemy, Flask, Docker

- Created a URL shortening microservice built on top of Redis and Flask. It further utilizes Postgresql as a persistent store to mitigate data loss due to failures.
- Utilized docker to containerize the service and allow for easy deployment.

### NEWS AGGREGATOR THAT HELPS MITIGATE THE EFFECTS OF MEDIA BIAS ON USERS | [LINK](#) | FOR HACK-A-BIT 2018 HACKATHON

Python, Flask, Requests, Requests-HTML, TextBlob, FakeBox, JSON, Sqlite3, HTML, CSS

- Created a News Aggregator Progressive Web App, that utilized Machine Learning and Sentiment Analysis to classify news article as 'impartial' or 'partial'.
- Any search made through the app, returns news articles in a way that tries to cover all the perspectives available.
- Finished as the 6th highest ranked team at HACK-A-BIT 2018 (out of 50 teams selected from all over India).

### PLACEMENT PORTAL | [LINK](#)

PHP, PHPMailer, MySQL, HTML5, CSS3, JavaScript

- Designed the database schema and implemented backend using PHP and MySQL, for registering companies.
- Implemented automatic emailing facility using SMTP.
- Designed and implemented a responsive frontend for the website.

### UDAAN | WEBSITE FOR LITERARY CLUB | [LINK](#)

HTML5, CSS3, SVG Animation, Slick, AOS.css

- Created a elegant looking website for IIIT Kalyani's literary Club.
- Implemented Animation on inline-SVG with CSS.

### TVFPLAY-DL | [LINK](#)

Python, Requests

- TVFPlay-dl is a command line tool to download videos from TVFPlay (<https://tvfplay.com>).

## PAPERVAULT | [LINK](#)

HTML, CSS, JavaScript

- Papervault is a archive of previous year question papers of IIIT Kalyani and accompanying website to simplify searching of the archive.

Other projects include : Pacman clone, Website For Open-Source Club.

## RESEARCH

### CHARACTER RECOGNITION USING BINARY IMAGE

**DECOMPOSITION** | UNDER PROF.SANJOY PRATI HAR, IIIT KALYANI

Aug 2018 – Present

Surveyed different algorithms for rectangular binary image decomposition ( Run-length encoding, Generalized Delta Method, Quad-tree decomposition, Graph-based decomposition ), for real-time character recognition. It is still a work in progress.

## OPEN SOURCE CONTRIBUTIONS

### SCIPY | LIBRARY FOR SCIENTIFIC COMPUTATION

Python

- Applied for SciPy in GSoC with proposal - [LINK](#).
- Improved documentation for integrate module.

### ORIGAMI.JS | LIBRARY TO DRAW ON HTML5 CANVAS

HTML5 Canvas, JavaScript

- Implemented a bar charting method lacking in OrigamiJS.

Other organizations I have contributed to includes : FOSSASIA, Processing Foundation.

## ACHIEVEMENTS

- Member of 6th highest ranked team(single member team) at onsite event of HACK-A-BIT 2018 Hackathon.
- Member of the only single member team to be selected at HACK-A-BIT 2018 Hackathon.
- 4 star rated user on Codechef.

## CERTIFICATES

2018	NPTEL	Design And Analysis of Algorithms
2018	NPTEL	Programming, Data Structure And Algorithms in Python [Top 1%]
2018	NPTEL	Programming, Data Structure And Algorithms in C [Top 5%]

## POSITION OF RESPONSIBILITY

2018	Technical Adviser	Technical Committee of IIIT Kalyani
2018	Founding Member	Open-Source Club of IIIT Kalyani