

Anubhav 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
LinkedIn:// [anubhavp28](#)
Codeforces:// [anubhavp](#)
Codechef:// [anubhavp28](#)
Blog:// [anubhavp28](#)

Skills

Programming

Python • C • C++ • SQL • MongoDB
Assembly • ~~TeX~~ • Bash Scripting
Linux • Flask • Django • OpenCV

Hackathons

InOut 6.0

Among top 75 teams selected to
attend the onsite event.

Created a VR app to help children learn
the fundamentals of programming by
creating 3D stories and animations.

Hack-A-Bit 2018

6th Prize Winner (out of 50 teams)

Created a news aggregator that informs
users of biased content inside news
articles.

Work Experience

Google Summer of Code : Scrapy Project

Python, Tox, Travis

- Implemented an interface for robots.txt parsers in Scrapy (an open-source python based web scraping framework), allowing users to substitute a more spec compliant parser than the default one.
- Developed a pure-Python robots.txt parser compatible with Google's newly proposed revision of robots.txt specification. It is now the default parser in Scrapy.
- Implemented the interface on top of 3 popular existing robots.txt parsers, allowing the majority of Scrapy users to make the switch without having to write a single line of code.

IISc Bangalore Research Intern, Robotics Innovation Lab

Research, Computer Vision, Deep Learning, OpenCV, Keras

- Utilized ResNet-50 based CNN, Data Augmentation, and Transfer Learning to classify items for an automatic warehouse inventory management system.
- Wrote a research paper that is published at ICCAS 2020.

The Bomway Full-Stack Developer - Intern

Flask, MongoDB, Bootstrap, Python, JavaScript, HTML, CSS

- Implemented a shopping cart with support for multiple payment gateways, an option to offer discounts, the ability to calculate the international shipping cost, and an elegant user interface, which resulted in savings of \$3000 every year by replacing a third-party cart plugin previously used.
- Implemented a service to lazily resize images on user request with Amazon S3 as the storage backend.

Projects

Linux's Ping Command Clone [Link](#)

C++, Linux System Calls, Computer Networks

- Created a Linux ping command clone in C++ supporting both IPv4 and IPv6 protocols with the goal to enhance my understanding of ICMP protocol and Linux kernel internals.

Full Text Search and Indexing Server [Link](#)

Golang, Mux

- Created a service to search for words, inside a large quantity of text spread across multiple documents using an inverted index.
- Utilized it to create a service for searching inside a large number of research papers on my college's local network.

URL Shortening Service [Link](#)

Python, Redis, Postgresql, SQLAlchemy, Flask, Docker

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

Coursework

Undergraduate

Design And Analysis of Algorithms
Object Oriented Programming
Operating Systems
Computer Organization and Architecture
Compiler Design
Computer Networks
Machine Learning
Artificial Intelligence
Numerical Methods
Formal Language and Automata Theory
Data Structures
Programming with C
Discrete Maths
Probability and Statistics

VR-Play [Link](#)

A-frame, Google Cardboard, JavaScript, HTML, CSS

- Created a virtual reality based visual programming language (similar to Scratch) for creating 3D stories, animations and games, with the primary objective to help children between the age of 8 to 16 in learning fundamentals of computer programming (loops, conditions, algorithms, etc).
- Built the entire project in a short time span of 24 hours during India's largest community hackathon InOut 2019.

Gitstalk [Link](#)

NodeJS, GitHub REST API

- Created a command line tool that provides a detailed activity log of a GitHub user. Utilized GitHub REST API to fetch user data.

TVFPlay-dl [Link](#)

Python, Requests

- Created a command line tool to download videos from TVFPlay video streaming service, allowing users to enjoy their awesome content even on a slow or flaky internet connection.

Website for University Placement Cell [Link](#)

PHP, PHPMailer, MySQL, HTML5, CSS3, JavaScript

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

Website for University 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.

Certificates

2019	Udemy	Web Development with Go Programming Language
2019	Udemy	Natural Language Processing in Python
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%]

Achievements

- Ranked 256th in Google Kickstart Round D 2020.
- Awarded Bertelsmann Tech Scholarships among 50,000 applicants.
- Ranked 96th among 350 teams at ICPC Asia Amritapuri Site 2019.
- Candidate Master on Codeforces and 5 star rated user on Codechef.
- Among Top 50 students (all over India) in IIIT Hyderabad's Lateral Entry Entrance Examination.

Position of Responsibility

2018-Present	Technical Adviser	Technical Committee of IIIT Kalyani
2018-Present	Founding Member	Open-Source Club of IIIT Kalyani
2019-Present	Member	Institute's Innovation Council