



# NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR

MAHATMA GANDHI AVENUE, DURGAPUR- 713209

## CURRICULUM VITAE

### PERSONAL DETAILS:

- **Name:** Romit Karmakar
- **Date Of Birth:** 10/12/2000
- **Guardian's Name:** Swapan Kumar Karmakar
- **B.Tech:** 8th Semester
- **Branch/Specialization:** Computer Science and Engineering
- **Registration Number:** 18U10053
- **Male/Female:** Male
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### SUMMARY:

I have more than 3 years of experience in the tech industry. I have started working as a freelancer from my 1st year at my college. I have worked on 5-6 projects during the first 3 years as a freelancer, then I started to work as a Intern in a Startup company. My great strength is business awareness, which helps me permanently streamline business infrastructure and application. I am visionary, I never want to settle for small things. And I respect my team the most, because I believe in the saying **"A great team can accomplish things that a single person can never do in their life"**.

### EDUCATIONAL QUALIFICATIONS :

#### Secondary & Higher Secondary

Examination	Board/Institution	Year Of Passing	Marks		
			Obtained	Out of(Total)	%
10 <sup>th</sup> Std	CBSE/ Jawahar Navodaya Vidyalaya	2016	-	-	95
12 <sup>th</sup> Std	CBSE/ Jawahar Navodaya Vidyalaya	2018	466	500	93.2

**Graduation:**

SEM	I	II	III	IV	V	VI	VII
SGPA	7.73	7.93	7.34	8.4	7.8	7.9	6.8
CGPA	7.73	7.82	7.66	7.93	7.25	7.35	7.31

## Work Experience:

### GNU Linux Users Group, NIT Durgapur

I was in the above mentioned club for 4 years and hold the position of Web Development Head position in my Final year. As a member of this club, I have worked on multiple open source projects in our college. Some of the projects are being used by my college to host multiple technical competitions every year. Below are some of the projects which I headed and developed:

#### Digital Fortress

[lugnيتدgp/digitalfortress\\_frontend: The digital fortress event site](#)  
[GitHub - luginيتدgp/Digital\\_Fortress\\_Backend](#)

#### Online Judge

[Online Judge for hosting coding competitions inside NIT Durgapur made by GNU/Linux Users' Group!](#)

#### Aarohan App

[Aarohan - Apps on Google Play](#)

### Casbin

It is an authorization library that supports Role Based Access Control and Attribute Based Access Control. This project was incubated under Microsoft Research. My work under Google Summer of Code (GSoC) was to develop the C++ library of Casbin which was already written in Golang. I also wrote some adapters of Casbin for some well known Node Js frameworks like Express, Koa and Hapi.

#### Reference

- [The docs website for Casbin](#)
- [GitHub - casbin/casbin-cpp: An authorization library that supports access control models like ACL, RBAC, ABAC in C/C++](#)
- [express-authz is an authorization middleware for Express.js based on Casbin](#)
- [hapi-authz is an authorization middleware for Hapi.js based on Casbin](#)

## **ETark Technologies Pvt. Ltd.**

I was hired by ETark to develop their initial prototype of a complaint analysis app that will help consumers easily find the best route to get their problem resolved. Me and my team developed the first prototype of their idea using Flutter targeting Android and iOS platforms and the backend system that connects the machine learning model with the mobile app. After the company secured their first round of investment from Microsoft, I left the company to work on a new startup.

### **Reference**

[ETark : Complaint Analysis – Apps on Google Play](#)

## **Triunits Infotech Pvt. Ltd.**

Triunits is mainly a cryptocurrency exchange that lets customers buy and sell bitcoin, ethereum etc. using Indian Payment methods like UPI, Netbanking etc. I joined the company in 2020 as a Full Stack Developer, where I and my team of 2 others developed a high speed cryptocurrency trading platform using LMAX Disruptor, Real Logic Agrona and Adaptive Radix Tree and in the frontend we used Next.js powered by React.js. Then I started to head the Triunits Mobile division. There I helped develop the iOS and Android app using Flutter, Swift and Kotlin.

### **Reference**

- [Triunits](#)
- [Triunits - Apps on Google Play](#)

## **Treadaa Groups Pvt. Ltd.**

Treadaa is launching its first in India platform to trade player stocks. I have helped the startup to design their architecture and how to utilize the blockchain platform to create a trustless stock exchange where brokers can connect to the main exchange using the FIX protocol to provide services to their customers. I helped them develop the platform on Consensus (Ethereum) blockchain using Smart contract and oracle powered by Chainlink.

## **Skills :**

**Programming Languages:** React.js, C, C++, Golang, Javascript, Solidity, Flutter, Node.js, Python

**Technologies used:** Ansible, Terraform, Kubernetes, Docker, Elasticsearch, Next.js, Redux, Redux Saga.

**Platform:** Centos, RHEL, Ubuntu, AWS Cloud

### **Position of Responsibility:**

**Web Dev. Head of GLUG of NIT Durgapur:** We conduct various Seminar and Competition on Tech based topics and Organize Events and organize the annual Technical Fests of NIT DURGAPUR, AAVISHKAR and AAROHAN.

**Github Profile:** <https://github.com/romitkarmakar>