

## Academics

**2017-2022** | *B.Tech + M.Tech (Dual Degree)* in **Computer Science and Engineering**, IIT Kharagpur  
GPA **8.52/10.0** (Ongoing)

## Experience

Jul 20	<b>Backend Intern: Praja</b>	<b>Praja.buzz, Bangalore</b>
Aug 20	- Fabricated architecture and implemented <i>fan-out write</i> based global and personal activity feed using Elasticsearch atop Ruby on Rails backend - reducing average feed generation time from 6 seconds to 320 milliseconds.	
May 20	<b>FullStack Intern: Skillbee IPI Connect</b>	<b>Skillbee, Noida</b>
Jul 20	- Implemented caching and optimized retrieval of analytic data, reducing average time from 1.3 min to 224 ms. - Analyzed Node.js heap usage pattern and implemented practices to reduce memory footprint, modularised WhatsApp chatbot flow, improved docker inter-container networking, created scripts to automate mundane tasks, etc.	
May 19	<b>Student Software Developer: Sample Platform</b>	<b>CCExtractor, Google Summer of Code 2019</b>
Aug 19	- Implemented code sanity checking mechanisms, increase unit-test coverage from 60.2% to 90.1%, implemented database migration methods and improved time estimation algorithm's accuracy with DB schema modification.	
May 19	<b>Backend Engineering Intern: Income Tax Filing Tool</b>	<b>ClearTax, Bangalore</b>
Jul 19	- Updated ITR-2, ITR-3 and ITR-4 filing to 2018-19 fiscal-year schema while retaining backward compatibility. - Improved DevOps using IIS Manager, Scalyr, Spinnaker and TensorFlow (with OpenCV and Keras) to setup up better logging, improved automation and Income Tax Department's captcha solver (achieving 94.3% accuracy).	
Dec 18	<b>Software Engineering Intern: VWO</b>	<b>Wingify, New Delhi</b>
Jan 19	- Dockerised core components of VWO reducing migration and production setup time by roughly 80%. - Optimized data queries and reliability with UX changes reducing the campaign creation dropout rate by 30%.	
May 18	<b>Student Software Developer: Project Nephos</b>	<b>CCExtractor, Google Summer Of Code 2018</b>
Aug 18	- Authored head-less tool to automate recording, processing and uploading IPTV streams for University Of Navarra, Spain and others - increasing throughput by over 400+% with no human intervention required to handle failures.	

## Projects

- **CareShare, Backend Developer**  
Developing with Singaporean health startup [Zealth-AI](#), a platform for doctors and hospitals to keep track of discharged and asymptotic Covid-19 patients with multi-lingual support aimed at Indian patients. Currently, the product is being used by 50+ hospitals including prestigious ones like *PGI Rohtak* and *All India Institute Of Medical Science (AIIMS)*.
- **CloudCron, Co-Founder**  
Software as a Service (SaaS) platform to ease the setting up and execution of cron-tasks; developer with stack comprising of GCP (AppEngine, CloudSQL, PubSub, CloudScheduler), Python, PostgreSQL, Kubernetes API and more.
- **DigiCon, OpenSoft 2018 IIT Kharagpur**  
Gold winning entry to the Inter-Hall Opensoft, IIT Kharagpur; generates digital prescription from doctor's handwritten.
- **ConnectAll, Hack-A-BIT 2019**  
Developed in 36 hours, ConnectAll is a platform that enables specially-abled to easily interact with conventional tech.

## Technical Skills

Languages	JavaScript (Node.js), Python, C, Golang, PHP, Java, Ruby
Libraries / Frameworks	OpenCV, .NET Core, SpringBoot, Flask, Django, ASP.NET, Ruby on Rails
Data Storage / Handling	MySQL, SQLite, MongoDB, PostgreSQL, Elasticsearch
Systems / Platforms	Heroku, Azure, GCP, AWS, Pivotal Platform, Digital Ocean
Sys Admin / Technologies	Docker, REST, GraphQL, Protobuf, Blockchain, Nginx

## Activities & Leadership

- **OpenSource Involvement:** Mentored [Make SwagLyrics Great Again](#) and [Sample Platform](#) in GSoC 2020 and high school students for GCI 2018 and GCI 2019 under [CCExtractor](#), top mentor for [GirlScript Summer of Code \(GSSoC\) 2018](#) and [Sol 2019, IIT Dharwad](#). I've successfully conducted [Kharagpur Winter of Code 2018](#), [GSSoC 2019](#), and [GSSoC 2020](#).
- **Team Member, InfoSec, Inter IIT Tech Meet:** Bagged fourth position (competing against other 22 sister IITs) in Jeopardy Style Security CTF organised by [Payatu](#) in Inter IIT Tech Meet 8.0 held at IIT Roorkee from 20 - 22 December 2019.
- **Head of Technology, IIT Technology Ambit:** Lead a team of 6 developers to provide sustainable and easy-to-maintain services for digital distribution with complete [open-source solutions](#), estimated to serve 2000+ users on monthly basis.
- **Maintainer, MetaKGP IIT Kharagpur | Executive Member, KOSS IIT Kharagpur:** Responsible for promoting and maintaining open-source culture and [tools](#) (campus-centric) such as knowledge wiki, APIs, timetable manager, scrappers and bots.