

## Academics

**2017-2022** | *B.Tech + M.Tech (Dual Degree)* in **Computer Science and Engineering**, IIT Kharagpur  
GPA **8.54/10.0** (Ongoing)

## Experience

- May 19** | **Student Software Developer: [Sample Platform](#)** | **CCExtractor, Google Summer of Code 2019**  
**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.  
- Improved regression testing and file diff algorithms, parallelized working of Kernel Virtual Machines to run multiple platforms in concurrency and curated automation scripts for updating test files and outputs.
- May 19** | **Backend Engineering Intern: [Income Tax Filing Tool](#)** | **ClearTax, Bangalore**  
**July 19** | - Updated stale data in micro-services and API data-layers and synchronized ITR-2, ITR-3 and ITR-4 filing with Income Tax Department's new schema for 2018 fiscal-year ITR filing 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).  
- Enabled A/B testing with [GTM](#) and [Google Optimize](#); orchestrated [Retool](#) tools improving sign-up funnel results.
- May 18** | **Student Software Developer: [Project Nephos](#)** | **CCExtractor, Google Summer Of Code 2018**  
**Aug 18** | - Authored CLI to automate recording, processing and uploading IPTV streams for University Of Navarra, Spain.  
- Using best practices for error handling, DBMS, FTP handling in Python, scheduling, modular configuration implementation, logging and [DRY methods](#) increased throughput by 400+% with 0 required restarts on failures.
- Dec 18** | **Software Engineering Intern: [VWO](#)** | **Wingify, New Delhi**  
**Jan 19** | - Dockerised core components of VWO reducing migration and production setup time by 80%.  
- Optimized data queries and reliability with UX changes reducing the campaign creation dropout rate by 30%.

## Projects

- **CloudCron, Co-Founder**  
Software as a Service (SaaS) platform to ease the setting up and execution of cron-tasks; led the tech-team 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; parses doctor's handwriting with character recognition.
- **Messiah, Microsoft CodeFunDo++ 2018**  
Service to predict magnitude of Earthquake using Tensorflow: web-app optimization leading to 230% lesser loading time. Upscaled and improved version bagged runners up under open category in [Streethack Blockhack](#).

## Technical Skills

Languages	Node.js, Python, C, Golang, PHP, Java
Libraries / Frameworks	OpenCV, .NET Core, SpringBoot
DBMS	MySQL, SQLite, MongoDB, PostgreSQL
Systems / Platforms	Docker, Vagrant, Heroku, Azure, GCP
Web Technologies	Bootstrap, Flask, Django, ASP.NET, ReactJS, AngularJS, REST, GraphQL, Nginx

## Activities & Leadership

- **Head of Technology, [IIT Technology Ambit](#)**: A magazine start-up delivering latest research and incubation digest right from IITs. Leading 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 at launch.
- **Students' Technology Coordinator, [Technology Gymkhana](#), IIT Kharagpur**: The highest nominated technical position in the institute; responsible for [GymKhana website](#) maintenance, Institute's app development, students' grievance portal, etc.
- **Student Speaker, [Pragma IIIT Allahabad](#)**: Had the opportunity to share my experience regarding [efficient methods of planning, programming for perpetual processes](#), avoiding overhead maintenance costs and denial of service.
- **OpenSource Involvement**: Mentored high school students for GCI 2018 under [CCExtractor](#), top mentor for [GSSoC 2018](#) and [Sol 2019](#), IIT Dharwad. I've successfully conducted (as a organizing cum web team member) [GirlScript Summer of Code 2019](#) and [Kharagpur Winter of Code 2018](#), among 25 volunteers selected from nationwide colleges for [Codepreneur week 2019](#).
- **Facilitator, [Google Explore ML Academy](#)**: Selected as a student facilitator under Google Explore ML Program to learn, practice, teach and prepare ML enthusiasts on Campus and National Level.
- **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, services, scrappers and bots.