

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

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|------------------------|---|
| Languages | Node.js, Python, C, Golang, Python, PHP |
| Libraries / Frameworks | OpenCV, .NET Core |
| 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.