

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 | **SE 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 (94.3% accuracy).
- Enabled A/B testing with GTM and Google Optimize; orchestrated Retool tools for marketing-sales department.
- May 18 | **Student 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.
- Worked extensively with error handling, database management, remote server operations, FTP handling in Python, scheduling, modular configuration implementation, extensive logging and DRY methods.
- Dec 18 | **SE Intern: VWO** | Wingify, New Delhi
Jan 19 | - Dockerised core components of VWO to facilitate easy migration and production setup.
- Optimized data queries and improved reliability along with UI fixes in VWO Dashboard, written using AngularJS.

Projects

- **Sample-Platform, Google Summer of Code 2019**
Continuous Integration platform for CCEXtractor's principal repository: improved the code sanity checking mechanisms through mypy, dodgy and other tools, increased unit-test coverage from 60.2% to 90+%, setup database migration methods, improved file comparison algorithms, implemented parallel running of tasks, and more.
- **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 Google Cloud Services (AppEngine, CloudSQL, PubSub, CloudScheduler and more), Python, PostgreSQL, Kubernetes API and more.
- **DigiCon, OpenSoft 2018 IIT Kharagpur**
Gold winning entry (out of 13 entries) to the Inter-Hall Opensoft, IIT Kharagpur. The project parses a doctor's hand-written prescription using OpenCV, Flask, Natural Language Processing, REST API, bash scripting and Docker.
- **Messiah, Microsoft CodeFunDo++ 2018**
A 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	C C++ C# JavaScript Golang Python Java PHP
Libraries / Frameworks	Node.js OpenCV Click .NET Core Xamarin
DBMS	SQLite MongoDB PostgreSQL MySQL
Systems / Platforms	Linux Docker Vagrant Heroku Azure GCP
Web Technologies	Jekyll Foundation 6 Bootstrap Flask Django ASP.NET ReactJS AngularJS REST GraphQL Nginx

Activities & Leadership

- **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 Fellow, Google Explore ML Academy:** Selected as a student fellow under Google Explore ML Program to learn, practice, teach and prepare ML enthusiasts on Campus and National Level.
- **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.
- **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.