

## Academics

**2017-2022** | *B.Tech + M.Tech (Dual Degree)* in **Computer Science and Engineering**, IIT Kharagpur  
GPA **8.66/10.0** (Ongoing)

## Experience

May '21 Aug '21	<b>Backend Intern: Mercari</b> <span style="float: right;"><b>Tokyo, Japan</b></span> - Worked under Master team responsible for migration of monolith Mercari HTTP architecture into gRPC micro-services to optimize load-cost, decouple independent services, and increase maintainability. - In line with Mercari's culture of end to end ownership - designed, developed, test, deployed, and setup monitoring for created gRPC endpoints using <i>Telepresence</i> , <i>Datadog</i> , GCR, GKE, etc.
May '20 Jul '20	<b>FullStack Intern: Skillbee IPI Connect</b> <span style="float: right;"><b>Skillbee, Noida</b></span> - Refactored methods and data structures by analyzing Node heap usage pattern to reduce memory footprint. - Fabricated architecture and implemented <i>fan-out on write</i> global and <i>fan-out on read</i> personal activity feed using <i>Stream Framework</i> and <i>Elasticsearch</i> respectively - reducing avg. feed generation time from 4 secs to 300 ms.
May 19 Aug 19	<b>Student Software Developer: Sample Platform</b> <span style="float: right;"><b>CCExtractor, Google Summer of Code 2019</b></span> - 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 Jul 19	<b>Backend Engineering Intern: Income Tax Filing Tool</b> <span style="float: right;"><b>ClearTax, Bangalore</b></span> - 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 Jan 19	<b>Software Engineering Intern: VWO</b> <span style="float: right;"><b>Wingify, New Delhi</b></span> - Dockerised core components of VWO reducing migration and production setup time roughly by 80%. - Optimized data queries and reliability with UX changes reducing the campaign creation dropout rate by 30%.
May 18 Aug 18	<b>Student Software Developer: Project Nephos</b> <span style="float: right;"><b>CCExtractor, Google Summer Of Code 2018</b></span> - 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, Lead Developer**  
Developed at *Zealth-AI* (under *Antler* and *YC-W21*), a platform for remote monitoring and diagnosis of Covid-19 & Cancer patients with multi-lingual support. The product was pilot tested at 50+ hospitals including *PGI Rohtak* and *AIIMS*.
- CloudCron, Polyglot.Network**  
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
Data Storage / Handling	MySQL, SQLite, MongoDB, PostgreSQL, Elasticsearch
Sys Admin / Technologies	Docker, GraphQL, gRPC, Nginx, Prometheus, Grafana, Terraform, Kubernetes

## Activities & Leadership

- OpenSource Involvement:** Mentored *Make SwagLyrics Great Again* and *Sample Platform* in GSoC 2020 and GSoC 2021, 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*.
- InfoSec, Inter IIT Tech Meet:** 1st position (among 22 sister IITs) in Saptang Lab's Network Security Hackathon and 4th position in Payatu's Jeopardy Style CTF respectively in Inter IIT Tech 9.0 (IIT Guwahati) and Inter IIT Tech 8.0 (IIT Roorkee).
- 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.