

Academics

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

Experience

May '20	FullStack Intern: Skillbee IPI Connect	Skillbee, Noida
Jul '20	<ul style="list-style-type: none">- 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.- 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	Student Software Developer: Sample Platform	CCExtractor, Google Summer of Code 2019
Aug 19	<ul style="list-style-type: none">- 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	Backend Engineering Intern: Income Tax Filing Tool	ClearTax, Bangalore
Jul 19	<ul style="list-style-type: none">- 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	Software Engineering Intern: VWO	Wingify, New Delhi
Jan 19	<ul style="list-style-type: none">- 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	Student Software Developer: Project Nephos	CCExtractor, Google Summer Of Code 2018
Aug 18	<ul style="list-style-type: none">- 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**
Developing at Singaporean health startup **Zealth-AI** incubated by *Antler*, a platform for doctors and hospitals to keep track of discharged and asymptotic Covid-19 patients with multi-lingual support aimed at Indian patients. The product is being used by 50+ hospitals including prestigious ones like *PGI Rohtak* and *All India Institute Of Medical Science (AIIMS)*. Currently, I'm fostering the product development to incorporate tracking ICU admittees, Cancer patients, etc.
- **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
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.