

Education

2017-2022 (Expected)	M.Sc. (5 year) in Physics Indian Institute of Technology , Kharagpur	GPA: 7.75/10.0
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Technical Skills

Programming	<i>Proficient:</i> Python, Javascript, Frontend <i>Competent:</i> C, C++, Rust, Golang, Haskell
Libraries / Frameworks	Flask, Requests
Systems / Platforms	Git, Heroku, Linux, Android

Work Experience

May May 17	Assistant Tech Coordinator - Wrote an end-to-end GraphQL API service in Java for opting out of QuickBooks Online's core subscription. - Deployed a Machine Learning model to help Intuit predict potential paid customers for QBO using trial data. - Reduced erroneous reports by over 30% from other teams to QBO's Billing team with a revamped internal tool.	Gymkhana IIT Kharagpur
Jun 16 May 16	Software Engineer Intern - Automated migration & replication of real-time data from Amazon RDS to Redshift, optimized for full-table queries. - Implemented proof-of-concepts to embed a Business Intelligence (BI) solution into the platform and wrote base models that can be extended as reusable SQL views.	ezDI, India
Apr 16 Feb 15	Software Team Member - Kraken 3.0 - Worked on the image processing team at IITKGP's autonomous underwater vehicle research group. - Wrote algorithms in OpenCV and ROS for the bot to successfully complete tasks like Buoy detection and path following. Implemented Neural Network based adaptive image segmentation to adapt to changing lighting conditions.	Autonomous Underwater Vehicle Research Group

Projects

- **TodxPy**
Created a command line todo application which focuses on simplicity and usability using Python.
- **Gymkhana Website**
Worked on the newer version of Gymkhana website
- **Selene**
Built a social music-recommendation Android app based on YouTube that analyzes usage data from friends and nearby users and recommends the most popular tracks.

Hackathons & Competitions

Mar 17	MetaKGP Dashboard - Won bronze medal for building a NUS-Mods style dashboard with various utilities created for students of my college. The dashboard was built with a NodeJS backend and had several utilities including smart timetable, news aggregator, question paper portal and professor finder to name a few.	Inter-IIT Tech Meet '17
Dec 16	Stol (SMS to Internet) - Made an android application for basic internet access like Google Maps navigation, Duckduckgo quick search, Zomato reviews, etc. without a data connection. Communication with the server was done using Twilio's SMS APIs.	Pragyan Hackathon '17
Apr 16	Data Extractor for 2D plots - Built a graph extractor that detects multi-variable graphs in any given PDF and tabulates them autonomously taking into consideration features like axis values, scales and legends.	OpenSoft '16