# KUNAL KUMAR BARMAN

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GitHub                                                                                                                    LinkedIn

## Education

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|---|---|---|
| Indian Institute Of Information Technology Kalyani │ B.Tech (CSE) | 8.75 | Aug 2018 – June 2022 |
| Adarsh Vidya Mandir, Bokaro, Jharkhand **│** CBSE │ Science │ 91% | Apr 2016 – Mar 2018 |
| Adarsh Vidya Mandir, Bokaro, Jharkhand │ CBSE (X) │ 10.0 CGPA | Apr 2012 – Mar 2016 |

## Skills

C++ | Data Structure and Algorithm | Go | grpc | Python | Django + DRF | OOPs | C | Linux | Html5 | CSS3 | javascript | Sql | Git | PostgreSQL .

## Work Experience

**Full-Time | Nurture.Farm (UPL subsidiary) | SE (Backend)**                                    July 2022 – present
- Involve in multiple services which includes payment , user, auth and payout in **Platform Team**.
- Increase the debugging efficiency by adding the latency and counting metrics and alerts.
- Created user service (microservice) from a monolithic service and did  all  the migrations and latency optimization.
- Worked on canary deployment.
- Build CI / Cd pipelines in jenkins and spinnaker and Set up the Jenkins rule for checking the unit test coverage.
- Written unit test with 60 - 70% coverage in multiple services and Optimize the threading by adding executor service.
- Took knowledge sharing sessions, Gave Monthly Tech Review on the behalf of my whole team  , Mentored interns , guided the team on how  to manage on calls and updated the jira board as per better understanding.
- **Tech Stack** - Golang , Java , Grpc , Git , Jenkins, Mysql.
- **Tools**- Intellij, Goland, Grafana, Prometheus, jenkins, gitlab, Spinnaker, Jira.

**Internship | Tata 1mg | SDE (Backend) | 6 Months**                                          Jan  2022 – July 2022
- Worked with the  **Cart Flow Validation team in the payment vertical**.
- Worked in a Auth service to write a **logic for syncing the Tata Data with 1mg User base**.
- Fixed the **bug of Partial refund calculation** for the CSC (Common Service Centres) , Wrote a change for a **bulk credit of 1Mg cash**  for Tata + 1Mg users.
- Written a bash script of **git pre-commit hook** for testing of a python code style using pycodestyle and bash script of **git pre-push hook** for pytest coverage for defined test cases and documented them.
- Build an **end Point for the activity of neu coins** , **Earning on orders**  for Customer Service-Console page and 1mg app reward earning page.
- Resolved **400+ on call issues and some PROD bugs** related to payment service (1Mg in Tata neu + 1Mg).
- **Tech Stack** - Python , Sanic , Git , PostgreSQL , Git Hooks , Docker , kubernetes.

**Internship | MAQ Software | Software Engineer | 2 Months**                                  May 2021- July 2021
- Worked on an application for our largest client which aims at bringing all distributed reporting streams into a single interactive framework.
- **Tech Stack** - Python, Azure DevOps, Azure Databricks, SQL, Power Bi.

**Internship | Algoladder | Backend Developer | 3 Months**                                     Jan  2021 – April 2021
- Created the **Restful Api** of the live web application from scratch, and added new features. Implemented **CRUD operation and improved the UI/UX** of the admin panel.
- **Tech Stack** -  Django Rest Framework, Django, Heroku, HTML, CSS, sqlite3, web scraping, js

**Internship |Banaao Maker's playground | Software Developer  | 3 Months**                     May 2020  – July 2020
- Developed a full-fledged web application related to electronics (Paper Circuit) and deployed in Heroku, also worked with  Microsoft open sources project.
- **Tech Stack** - Express Js, Html5, CSS3, Firebase and google bucket, Heroku.

## Projects

**Republic Of Coders | Web App  | Git  App**                                                   Mar 2021 – July 2021
- It is an E-library  which contains books, notes, regular updates of Competitive Coding Contest, Learning content for Dev and Cp with daily updates of the problem using a cron job. Users with credentials can upload and edit data.
- **Tech Stack** - Django, **MongoDB Atlas, code forces API, clist API, HTML, CSS, javascript**, web cache.

**Pocket Medical** │ CNN Model | Web App | Git  App  Cnn-Model                                   Dec 2020- Mar 2021
- Trained CNN model with Wound/Cuts images data with 93.7% accuracy and merged with a web application with features like -  Detecting severity, Finding near(hospital, medical ), QR code info, Save Your medical record.
- Test id: rishu, password: asghasgh
- **Tech Stack** - **Django, CNN, Keras, TensorFlow, pillow, pandas, here map API, geocoding, Deep Learning.**

**IPL Discord Bot** | Script | [Git]                                    Sept 2020 - Oct 2020

- It is live in discord as it retrieves the current score, schedule, point table, and batsman list during IPL.
- **Tech Stack**- Python, **web scrapping**, discord.py.

## Academic and Extracurricular Achievements

- **Qualified for Asia Regional Amritapuri ICPC 2020** with 430/3050 in the preliminary round.
- **Pune-Gwalior Regional ICPC Round Rank 222/700.**
- Achieved **3rd position in CodAcharya** 2021 (Inter College Coding competition).
- **Google HashCode 2021 India Rank**:- 807/3913 and Global Rank:- 2982/9004.
- Participated in **100+ online contests** collectively on different sites like CodeForces, CodeChef.
- Solved **1300+ problems** collectively in different sites like CodeChef. CodeForces, Leetcode, Binary Search, GFG, HackerRank, cses.fi..
- Won **1st position in Version Beta hackathon under code Asylum Category**.
- **Runner up in Unscript Hackathon 2k20.**
- Qualified in the first round of google code jam 2020 [42 pts].

## Positions of Responsibility

- Mentored juniors of my college.
- Institute Innovation Council (IIC) - IIIT Kalyani - Member