

# CHIRAG JAIN

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[Portfolio](#)

[Linkedin](#)

[Github](#)

## WORK EXPERIENCE

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### Google - Software Engineer III

Jul 2022 - Present

- Achieved **100x** increasing in processing capacity and an **80%** reduction in wait times for a network management workflow system by designing and implementing parallelism, paginated sharding and dynamic batching.
- Designed and co-implemented a system to track historical and current versions of network time series data in a specialised **bitemporal database**, enabling reliable historical data analysis and improving system maintainability.
- Drove the creation of a new user interface for tracking network intent uploads from PRD creation to final implementation, which also served as a PoC of an in-house dynamic frontend framework that accelerates UI development.
- Speed up network cost calculation workflow by **90%** by implementing a batch RPC in an external team's service and achieved a **94 %** speedup in another service through database restructuring.
- Mentored junior engineers, hosted **3** interns and conducted over **75** technical interviews.
- Became **readability expert** for **Python, Java and Kotlin** and authored an article in internal "Java and Kotlin Tips" forum.

### Microsoft - Software Engineer Intern

May 2021 - Jul 2021

- Developed a loosely coupled component for alerting based on critical touchpoints, that can be identified by monitoring telemetry or DB.
- **Tech Stack:** C#, .NET Core, Azure Functions, MS SQL, KQL, MQL

## EDUCATION

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### Indian Institute of Technology (ISM), Dhanbad

Jul 2018 - May 2022

B.Tech in Computer Science - **CGPA - 9.32**

## TECHNICAL SKILLS

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- **Programming Languages:** Python, Java, Kotlin, C++, Typescript
- **Frameworks:** ReactJS, NodeJS, React Native, Flask
- **Databases:** Spanner, MySQL, MongoDB
- **Deep learning frameworks:** Pytorch, Keras

## PROJECTS

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### Sky Detector App [Flask, MySQL, React, React Native, Pytorch]

[Github] Jan 2022

- Co-developed a mobile and web application for detecting the sky in the photograph and masking it using a CNN network (U-Net), enabling analysis of solar energy potential in an urban setting.

### Dataset Creation and ML Evaluation UI [React, SQL, FastAPI, Docker]

[Github] Mar 2021

- Developed a UI for producing images after performing a sequence of custom augmentations and used it to generate the training dataset for ML model.
- Also built a UI to allow users to get insights about model failure by visualising various metrics.

### Campus Assistant [NodeJS, MongoDB, React, Redux, AWS S3, IBM Watson]

[Github] Jul 2019

- Developed a portal for the college with a unique market hub with bidding enabled and a chatbot for campus FAQs.

## ACHIEVEMENTS

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- Achieved rank of **148** in India and global rank of **964** in Google HashCode (Team Name : CovidShield21)
- Secured **162** rank in ICPC Amritapuri Online Round.
- Achieved a global rank of **459** in Google Kickstart.
- Secured **top-10** rank in HackOn with Amazon 2021.
- Received **Bronze** in **Inter-IIT Tech Meet**.
- Rated **Expert** at Codeforces with rating **1693**.