

# Shreyaa Sharma

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## EDUCATION

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### IIT Roorkee

*Bachelor of Technology in Civil Engineering*

July 2019 – May 2023

CGPA: 8.604/10

## EXPERIENCE

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### Uber India | *Software Engineer-II - Pinot*

June 2023 – Present

- Engineered a light-weight pass-through proxy for Apache Pinot, optimizing query routing, authentication and error categorization. Developed Go and Java client libraries for the proxy service.
- Built a hybrid transactional and analytical processing tool using Docstore and Pinot, offering a unified interface to handle both real-time data updates and in-depth analysis.
- Enhanced security in Pinot ecosystem by identifying and addressing AuthN/AuthZ gaps in Pinot core components and proxy services.
- Spawned an A/B testing framework to stress test Pinot on ARM nodes, identifying critical datasets, running load tests, and creating observability and monitoring dashboards. Onboarded Pinot on ARM after identifying and debugging architectural issues encountered on ARM.
- Enhanced the functionality and reliability of Neutrino, a Tier 0 proxy service for Pinot, by implementing new UDFs, executing critical bug fixes, introducing comprehensive test coverage and automating test workflows.

### Uber India | *Software Engineering Intern*

May 2022 – July 2022

- Developed a feature release manager for the spark team to automate their feature release pipeline.
- Completely eliminated developer dependence and reduced MTTD issues for an error prone rollout pipeline, along with adding other checks to perform analysis and ensure code reliability and stability.

### Uber India | *Software Engineering (UberSTAR) Intern*

May 2021 – June 2021

- Developed a comprehensive A/B testing suite for Apache Spark based services in Java, automating workflow testing and enabling early detection of critical issues.
- Integrated the testing suite into existing Uber data pipelines, enhancing the reliability and performance of big-data processing for data science applications.

### Ceph | *Google Summer of Code*

June 2021 – Aug 2021

- Enabled seamless bug reporting on the ceph dashboard by integrating the Redmine based Ceph Issue Tracker.
- Extended the functionality through cli support and support on server to manage issues.

### Public Lab | *Outreachy*

June 2020 – Aug 2020

- Worked on **revamping and relaunching** the Public Lab website, especially, the WYSIWYG editor. Managed the succeeding release of the editor.
- Integrated an end-to-end (E2E) testing suite using Jest and Puppeteer, ensuring comprehensive test coverage and improving reliability and stability.

## PROJECTS

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### Beast & PlayCTF | *Go, Docker, VueJS*

- Beast is an automated Jeopardy-style **CTF challenge deployment and management tool**
- Worked on challenge action pipeline, integrated feature to auto-deploy and update challenges from remote.
- Developed the admin panel on PlayCTF to manage competitions on beast using an interactive GUI built on VueJS

### CricLive | *Unity3D, Blender*

- The cross-platform app takes **text cricket commentary as input and generates a match stream in real-time** using animations by performing language processing on the live commentary
- Designed 3D assets and animations used in the game from scratch using Blender
- Devised algorithms in Unity3D to render animations, optimizing VR performance, shot-type sentimental analysis of text commentary.

### Pinger | *Go*

- Pinger is an **uptime and status monitoring app** with pluggable probes, storage backends and alerts
- Developed the **alert system** to send notifications on slack, discord and mail when status of a service changes

## TECHNICAL SKILLS

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**Languages:** Go, Java, C++, Rust, Python, Scala, JavaScript, TypeScript

**Frameworks:** React, Node.js, React-native, Vue.js, Angular

**Developer Tools:** Git, Linux, Docker, Apache Spark, Jupyter Notebook

## LEADERSHIP/EXTRACURRICULAR

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**Serving Millions of Apache Pinot™ Queries with Neutrino** | *Uber Blog*

Dec 2024

**Software Development Section (SDSLabs)** | *Developer*

Jan 2020 – May 2023

**Teaching Assistant (IIT Roorkee)** | *Numerical methods and computer programming*

Dec 2021 – March 2022

## ACHIEVEMENTS

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**InterIIT Digital Alpha's SEC Filing Analyzer** | *Silver Medal*

- Silver Medal among competing IITs for an application that extracts meaningful data from SEC filings, analyzes the growth and sentiment, and displays the relevant data

**HAB59 Hackathon** | *First prize*

- First prize in Office Productivity category with Ikai, an online/offline file sharing platform

**InOut7.0** | *First runner-up*

- First runner-up in 2500 participants with CricLive, a realtime cricket match generator that renders live matches through animations by processing text commentary as input