

## Education

- July 2016 - **Indian Institute of Technology Kharagpur**,  
May 2020 BTech. Industrial and Systems Engineering, GPA: 9.20/10

## Work Experience

- Jun 2022 - **Rill Data**, Applications Engineering  
Present Software Developer
- Developing Rill Developer - an open source data tool for superfast data transformations and dashboarding.
  - Work with technologies encompassing Svelte, Typescript, Nodejs and DuckDB to develop the data tool
- Feb 2022 - **SAP**, SuccessFactors  
May 2022 Software Developer
- Developed an in house framework for fuzz based testing of Role Based Permissions (RBP).
  - Developed a custom resiliency tool based on Property Based Testing concepts catering to OData and OpenAPI.
- July 2020 - Associate Software Developer  
Feb 2022
- Designed and implemented a decentralized pipeline for executing performance tests in more than 50 datacenters
  - Successfully created a framework for triggering and analyzing load test results using GitOps, Docker and Jenkins
  - Slashed lead time for performance testing by more than 30%. Made the framework highly flexible and accessible
- July 2019 - **Udacity**, React Nanodegree Mentor  
July 2020 Remote and Part-time
- Responsible for mentoring students pursuing the React nanodegree by monitoring and grading their projects
  - Support the students via 1:1 technical sessions to give them feedback and to clear their doubts

## Internships

- May 2019 - **MIT Computer Science and Artificial Intelligence Laboratory**, Visualization Group  
July 2019 Software Developer and Research Intern
- Implemented and studied various visualization environments with native support for interaction and animations
  - Used TypeScript, JavaScript and Jest to develop various new features for the Vega Lite visualization language
  - Made on top Vega, the environment helps users to create D3 like graphics with no programming experience
- April 2018 - **Google Summer of Code - Mozilla**, Iodide  
Oct 2018 Software Developer Intern
- Worked on Iodide - an open source browser based portable notebook for scientific computation and analysis
  - Created a server component using Django to implement version control and revisioning system for the notebooks
  - Implemented features using React and Redux, made the codebase more robust and performant by writing tests

## Skills

- Languages Javascript, Python, C, C++, SQL, TypeScript, ES6, CSS  
Libraries Svelte, React, NodeJS, Django, D3, Pandas, Redux, Flask, React Native  
Tools Git, Jenkins, Docker, Kubernetes, Consul, Vault, Figma

## Publications

- May 2020 **Lyra 2 : Designing Interactive Visualizations by Demonstration [link]**
- Authored by Jonathon Zong, **Dhiraj Barnwal**, Rupayan, Arvind Satyanarayan
  - Accepted at [IEEE Vis 2020](#) - (Virtual)
- Feb 2018 **CL Scholar: The ACL Anthology Knowledge Graph Miner [link]**
- Authored by Mayank Singh, **Dhiraj Barnwal**, Pradeep Dogga, Sohan Patro, Ritam Dutt, Rajarshi Halder, Pawan Goyal, Animesh Mukherjee
  - Accepted at [NAACL 2018](#) - (New Orleans, USA)