

Education

2016–2020 **Indian Institute of Technology Kharagpur**,
BTech. Industrial and Systems Engineering, GPA: 9.33/10.

Work Experience and 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.
October 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
- August 2017 - **Complex Networks Research Group**, Department of CSE, IIT Kharagpur.
Feb 2018 Research Assistant
- Monitored the research progress in Computational Linguistics community using ACL Knowledge Graph
 - Developed CLScholar, an advance search portal that supports NL Queries and provides public API endpoints
 - Authored 'CL Scholar: The ACL Anthology Knowledge Graph Miner' which got accepted at NAACL 2018
- July 2019 - **Udacity**.
Present React Nanodegree Mentor, Remote and Part-time
- Responsible for mentoring students pursuing the React nanodegree by monitoring their weekly progress
 - Support the students via 1:1 technical sessions to give them feedback and to clear their doubts

Projects

- Audan ◦ Developed an application for enhancing the teaching-learning process through personalized feedback
◦ Takes the classroom video and audio as an input to create emotion-environment sensitive reports
- Py Assist ◦ Developed a Blind Assistant System on Xilinx PYNQ Board which works without internet connection
◦ Built a Neural Image Captioning and Speech-to-text based pipeline for vision to audio transfer
- Khet ◦ Developed and HCI driven mobile application for semi-literate farmers of India to remove middlemen
◦ The technology stack used consisted of React Native, Google Cloud Vision, NodeJS and Firebase.

Leadership

- Feb 2018 - **Kharagpur Open Source Society**.
Feb 2019 Executive Head
- Lead the Introduction to JS workshop at Open Source Summit 2018 with participants from all over India
 - Organized and tutored Git workshop to help bring the student community closer to the field of Open Source
 - Organized and managed KWoC programme which had over 3000 registrations from more than 50 colleges

Awards and Achievements

- Jan 2019 Winner, Xilinx Innovation Challenge, Kshitij - Tech fest
Sep 2018 2nd Runners up at Hack-a-bit Hackathon
Jun 2019 India Finalist, IIGP University Innovation, Govt. of India
Apr 2019 India Finalist, Top 6 in the Smart India Hackathon - Open Innovation
Apr 2019 Recipient of IITKGP US Foundation scholarship