

# Daksh Goyal

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## EXPERIENCE

### Software Development Engineer

December 2021 - August 2022

*Signzy Technologies*

*Bengaluru, India*

- Worked towards extending the Generic Onboarding Product that included working with multiple codebases utilizing various JS frameworks like Angular, Loopback, and Koa with MongoDB for data persistence.
- Debugged and resolved 150+ high/critical priority bugs as part of a proactive team that ensures that the bugs are settled swiftly, which significantly improved end-user experience.
- Conducted thorough code reviews and encouraged team members to follow best coding practices.
- Improved the backend logic in the process of migration from Loopback to Nestjs while ensuring the code is self-documented, resulting in faster response times, increasing security, and minimizing bugs.
- Participated in brainstorming sessions discussing scalable solutions to complex problems, sharing and receiving constructive criticism.
- Developed and integrated important features into the product that contributed directly to the overall revenue of the company by enhancing the end-user experience.
- Collaborated with multiple teams handling different products to ensure seamless integration between various company products.
- Contributed to major refactoring of code, which led to speed optimization and made the code more maintainable.

### Summer Research Intern

April 2020 - August 2020

*Indian Institute of Technology, Roorkee*

*Roorkee, India*

- Generated models for anomaly detection in time-series data employing RNN, LSTM, and regressors in PyTorch
- Pruned CNN models developed for wearable sensor data, to reduce their computing cost and time using Geometric Median and Partial Least Squares Pruning

### Summer Research Intern

May 2019 - July 2019

*Indian Institute of Technology, Roorkee*

*Roorkee, India*

- Developed Machine Learning techniques to predict crops ready for harvesting using satellite imagery.
- Enhanced the machine learning approach for harvest-ready crop prediction by making use of fusion techniques

## EDUCATION

### University of Southern California

*Master of Science, Computer Science*

*Aug. 2022 – Present*

### National Institute of Technology Karnataka

*Bachelor of Technology*

*CGPA: 9.38/10*

*Aug. 2017 – May 2021*

## SCIENTIFIC PUBLICATIONS

### Conference Proceedings

- Daksh Goyal, K. R. Jerripathula, A. Mittal, "Detection of Gait Abnormalities caused by Neurological Disorders," *IEEE 22nd International Workshop on Multimedia Signal Processing (MMSP)*, Tampere, Finland, September 2020. (<https://ieeexplore.ieee.org/document/9287163>)

## PROJECTS

### NASA Mission Control | NodeJs, React, MongoDB, Docker, PM2

Github | Live Demo

- Built a mock space mission control dashboard that allows to schedule and keep track of launch missions.
- Integrated SpaceX API that provides details on past and upcoming SpaceX launches.
- Implemented a CI/CD workflow using GitHub actions and Docker and utilized PM2 to enable zero-downtime.

## TECHNICAL SKILLS AND AWARDS

**Languages:** JavaScript, TypeScript, Python, Go, Java, C/C++, MATLAB, L<sup>A</sup>T<sub>E</sub>X, PostgreSQL, HTML, CSS

**Libraries/Frameworks:** Angular, NodeJs, Loopback, Express, Deno

**Developer Tools:** Git, Docker, GitHub Actions, Ansible

**Awards:** Merit Scholarship 2017-2021 at NITK (awarded to the top 5% of students by academic performance)

**Extra/Co-curriculars:** Member of ASCE student chapter at NITK