



Kolanu Praneeth Reddy | 19AE10017

Aerospace Engineering (B. Tech 4Y)

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EDUCATION

Year	Degree/Exam	Institute	Performance
2023	Bachelor of Technology	Indian Institute of Technology Kharagpur	8.12 / 10
2019	Class XII, TSBIE	Narayana Junior College, Hyderabad	956 / 1000
2017	Class XII, TSBSE	Narayana Concept School, Hyderabad	9.7 / 10

INTERNSHIPS AND PROJECTS

Full-Stack Software Development Internship | Prof. Chintan Vaishnav | Qen Labs Inc. | August 2021 - October 2021

- Developed the technical stack for "Soil Testing and Nutrient Management" as part of the project MITTI, driven by Professor Chintan Vaishnav, which includes the development of a **Fertilizer Recommendation System** and a **Mobile Application** for data collection and mapping of farms.
- MITTI is a *project started at MIT's Tata Center* (an Energy Initiative) and is now being translated into a *product by Qen Labs Incorporation*.
- Coordinated with the design team and translated the design prototype from **Figma** into a clean and commented **React-Native** code.

Backend Development Intern | Prof. Adway Mitra | Centre of Excellence in Artificial Intelligence | August 2021 - October 2021

- Built a **Nodejs API Layer**, as an interface between the Reactjs frontend and the python simulator, simultaneously interacting with **MongoDB**.
- Integrated** the API with the application, and **performed tests (I&T)** in coordination with the frontend and the model-development teams.
- Deployed and managed the full stack of the project on an **Amazon Web Services (AWS) EC2 instance** using the **Apache Web Server**.
- Sponsored by the *Department of Science and Technology - Government of India* to study the spread of Covid-19 on university campuses.

Web Development Internship | Quantifiers | February 2021 - June 2021

- Built a completely **dynamic website** and a static **javascript chatbot** for the company from scratch using **Django, SQLite and Bootstrap**.
- Designed and developed a mock **quiz platform** of multiple-choice questions with the features like **navigation, instant result and solutions**.
- Facilitated the blog posting of the company by designing and developing a standardised blog platform on its website.

Full Stack Development Intern | ChiSquareX Technologies | January 2021 - May 2021

- Responsible to develop, manage and deliver software projects for the organisation and its clients alongside managing the human resources.
- Developed a **flutter application** to readably present the Constitution of India in Kannada and built a **Django website** for one of its clients.

POSITIONS OF RESPONSIBILITY

Technology Coordinator | Technology Students' Gymkhana | August 2021 - May 2022

- Nominated from among 15000+ students and responsible for all the technological advancements on the campus of IIT Kharagpur.
- Built a **Digital Inventory System** to manage and record the transactions of all the sports inventory of Technology Students' Gymkhana.
- Developed a **Django dashboard to keep track of students** on campus and those being called back during the reopening of the IIT Kharagpur.
- Devised a live scoreboard** employing **Nextjs and Google Sheets API**, for 8 sports as a part of Inter Hall Gymkhana Championship 2022.
- Responsible for the **maintenance** of the Gymkhana Website and Blog Site running on **Nextjs** and **Ghost CMS** respectively.
- Deployed** the applications on **Amazon Web Services EC2 instance** and **maintained a physical server** of Technology Students' Gymkhana.

PRAYAS Coordinator | Gopali Youth Welfare Society | April 2021 - May 2022

- Gopali Youth Welfare Society is *India's largest student-run and Indian-Government Registered Non-Governmental Organisation (NGO)*.
- Joined as a **business development intern**, got the offer of **Senior Executive Member** and later promoted to **PRAYAS Coordinator**.
- Coordinated in setting up around **10+ projects** under Komcluez Consultancy and Marketing Private Limited, CIN - U74999WB2021PTC245831.
- Led and managed a team of around **40 people** consisting of the Senior Executive Members, Office Staff, Interns and Project Members.
- Co-founded the Sponsorship Project under the PRAYAS Team with a vision to **aid social initiatives** in their fundraising.

Web Team Member | International Relations Cell | September 2020 - May 2021

- Responsible for the development and management of Foreign Training Portal 2020-2021 and the international website of IIT Kharagpur.
- Led a team of 7 Junior Associates of the web team and mentored them to learn Bootstrap Layouts, JavaScript, Python and Django.
- Contributed to the smooth conduction of the OnCampus Round of Hult Prize 2020 at IIT Kharagpur, being an organising team member.
- Worked hand-in-hand with the Office of International Relations to organize the events and programs of the International Relations Cell.

SKILLS AND EXPERTISE

- Programming Languages:** Python, JavaScript, Java, C/C++
- Developer Tools:** Linux, Git, GitHub, MongoDB, SQLite, PostgreSQL
- Frameworks and Libraries:** Django, Express.js, SpringBoot, Next.js, React.js, Gatsby, React-Native, Bootstrap

RELEVANT COURSEWORK

- Object-Oriented Systems Design
- Machine Learning Foundations
- Programming and Data Structures
- Transform Calculus
- Image Processing
- Market Microstructure

AWARDS AND ACHIEVEMENTS

- Secured **All India Rank 3591** in **JEE Advanced 2019** among the 2 Lakh+ shortlisted candidates.
- Secured a rank among the **top 0.5%** of the 1.5 million applicants in JEE Mains 2019.

EXTRA CURRICULAR ACTIVITIES

Open Source Contribution

- Contributed to a flutter application as a Student Developer in GirlScript Summer of Code 2021 conducted by GirlScript Foundation.
- Participated in and completed the Digital Ocean's Hacktoberfest 2020 and 2021.
- Completed the Kharagpur Winter of Code 2020 conducted by the Kharagpur Open Source Society.

Volunteer | National Service Scheme | July 2019 - April 2021

- Recognised as the best volunteer of the gold-winning team in the National Service Scheme Annual Camp 2019.
- Distributed stationery and conducted a drawing competition in a government school named Talbagicha Board Prathamik Vidyalaya.
- Collected clothes from students and professors of the IIT Kharagpur campus to distribute in villages around IIT Kharagpur.