KOLANU PRANEETH REDDY | 19AE30030

Aerospace Engineering (M. Tech Dual 5Y)

Micro Specialisation in Entrepreneurship & Innovation

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EDUCATION

Year	Degree/Exam	Institute	Performance
2024	Master of Technology - Dual Degree 5Y	Indian Institute of Technology Kharagpur	8.04 / 10
2019	Intermediate Public Examination, TSBIE	Narayana Junior College, Hyderabad	956 / 1000
2017	Secondary School Certificate, TSBSE	Narayana Concept School, Hyderabad	9.7 / 10

INTERNSHIPS

Software Engineer Intern | Knorex India Private Limited [May '22 - Aug '22]
- Drafted a report on **Apigee API Management** to assist developers in packaging, publishing and monetising the company's Application
- Programming Interfaces (APIs) with an additional layer of **security, rate-limiting, quotas, spike arrest and analytics** through an API proxy
- Fixed the stale pull requests and worked on the enhancements of the quotation management project built using Express and MongoDB
- Reported bugs, configured logging, developed a product service and implemented a global exception handler in a **Spring Boot Project**
- Dockerized, extended the services and improved the user interface of a gallery project running on **AngularJS, Express and MongoDB**

Full-Stack Software Development Intern | Prof. Chintan Vaishnav | Qen Labs Incorporation [Aug '21 - Oct '21]
- Developed the technical stack for "Soil Testing and Nutrient Management" as part of the project MITTI, driven by Prof. 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 [Aug '21 - Oct '21]
- Built an **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 Intern | Quantifiers [Feb '21 - Jun '21]
- Built a dynamic website with a revamp of the user interface and incorporation of value-added features yielding a **60% increase in user traffic**
- Designed and developed a **quiz platform** of multiple-choice questions with the features like **navigation, instant result and solutions**
- Facilitated the blog posting of the company through the end-to-end development of a **blog platform** on its website to keep users engaged

POSITIONS OF RESPONSIBILITY

Technology Coordinator | Technology Students' Gymkhana | IIT Kharagpur [Aug '21 - Apr '22]
- Nominated from among **15039 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 the sports inventory of around **6 stores** worth **10 crores INR**
- Developed a dashboard to keep track of **2042 students on campus** and **3484 invitees** during the reopening of IIT Kharagpur after covid
- Devised a live scoreboard for **8 sports** in Inter Hall '22, resulting **196.3% hike in user traffic** with **8m 12s average engagement time**
- **Deployed** the applications on **Amazon Web Services EC2** and **maintained a physical server** of Technology Students' Gymkhana

PRAYAS Team | Gopali Youth Welfare Society | Salua, West Midnapore [Sep '20 - May '22]
- 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 was later promoted to **PRAYAS Coordinator**
- Co-founded the Sponsorship Project under the PRAYAS Team with a vision to **aid social initiatives** in their projects by fundraising
- Tied up with **4** rural businesses, **3** social enterprises, a govt. project and set up **6** in-house projects generating **revenue of 5 lakh INR**
- Led a team of **24** student members, **8** employees, **10** interns and **16** part-time hires; Held a smooth transition of online-offline activities

Web Team Member | International Relations Cell |IIT Kharagpur [Sep '20 - May '21]
- Developed the Foreign Training Portal v4.0 hosting **103 offers** in **50 projects** from universities like Stanford, Carnegie Mellon, Brown, Yale
- **Led** a team of **7 Junior Associates** of the web team and **mentored** them in learning Bootstrap Layouts, JavaScript, Python and Django
- Organised the OnCampus Round of Hult Prize 2020 at IIT Kharagpur with a participation of **40 teams** which is a **33% YoY increase**
- Worked hand-in-hand with the Office of International Relations to organise the events and programs of the International Relations Cell

SKILLS AND EXPERTISE

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

RELEVANT COURSEWORK

Object-Oriented Systems Design | Programming and Data Structures* | Compiler Design | Systems Programming | Operating Systems | File Organization and Database Systems | Machine Learning Foundations & Applications | Image Processing   *[* - includes laboratory]*

EXTRACURRICULAR ACTIVITIES

- Mentored 4 first-year students and helped 2 eligible students achieve the merit-cum-means scholarship worth **2.1 lakh INR per annum**
- Represented Lala Lajpat Rai Hall of Residence, being a **Volleyball Team Member** in the Inter Hall Gymkhana Championship 2022

Open Source Contribution
- Contributed to the development of a book-donation flutter app in GirlScript Summer of Code 2021, steered by the GirlScript Foundation
- Student Developer in Kharagpur Winter of Code 2020; Successfully completed Digital Ocean's Hacktoberfest 2020 & Hacktoberfest 2021
- Developed and **open-sourced** a web-based project, with **13 stars** and **9 forks** on GitHub, to simplify the cv-making process for students

Volunteer | National Service Scheme [Jul '19 - Apr '21]
- Recognised as the **best volunteer** of the **gold-winning team** in the Annual Camp 2019; Participated in the **winter cloth-collection** drive
- Distributed stationery, conducted drawing competition and science experiments in a government school of Talbagicha, West Midnapore

!Self declared