KOLANU PRANEETH REDDY | 19AE30030

AEROSPACE ENGINEERING (M.Tech Dual 5Y)
MICRO SPL. in ENTREPRENEURSHIP AND INNOVATION, ARTIFICIAL INTELLIGENCE AND APPLICATIONS

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.TECH Dual Degree 5Y	IIT Kharagpur	8.04 / 10
2019	Intermediate Public Examination, TSBIE	Narayana Junior College, Hyderabad	95.6%
2017	Secondary School Certificate, TSBSE	Narayana Concept School, Hyderabad	9.7 / 10

INTERNSHIPS

Software Engineer Intern | Trumio Incorporation | San Jose, California   **[Jun '23 - Aug '23]**
• Engineered a **chat interface** to enable collaboration on the platform; Implemented **push notifications, profanity filter and data masking**
• Built a **Python module to abstract out API calls** from the backend; **Reviewed over 10 pull requests** and **reported 18 issues** on GitHub
• Formulated a comprehensive report outlining **productivity-enhancing AI tools** across stages of Software Development Lifecycle (SDLC)
• Collaborated with design team to **enhance the chat UX**; Designed backend architecture to support the functionality of CometChat SDK

Software Engineer Intern | Knorex India Private Limited | Pune, Maharashtra   **[May '22 - Aug '22]**
• Drafted a report on **Apigee API Management** to assist the team in packaging, publishing and monetising the company's services and APIs
• Added a layer of **security, rate-limiting, quotas, spike arrest and analytics** to the Application Programming Interface through a 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 Professor Chintan Vaishnav
• Designed and implemented a Fertilizer **Recommendation System** and a Mobile Application for farmers to collect the data and map farms
• Coordinated with the design team and translated the design prototype from **Figma** into a clean and commented **React-Native** code

PROJECTS

Campus Rakshak | Prof. Adway Mitra | Centre of Excellence in Artificial Intelligence   **[Aug '21 - Oct '21]**
• Sponsored by the *Department of Science and Technology - Government of India* to study the spread of COVID-19 on university campuses
• 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**

Software Applications Bucket | Top 5 Self Projects
• Constructed DevPort, a developer portfolio, using **Gatsbyjs** and **GraphQL**, with continuous deployment on GitHub Pages through Actions
• Developed and **open-sourced** a web-based project, with **22 stars** and **21 forks** on GitHub, to simplify the cv-making process for students
• Crafted a **GitHub Action** automating code compilation and export from the main branch to a dedicated build branch upon code commits
• Created a **JavaScript-based chatbot** to provide user-responsive interactions by implementing a structured **flow defined in JSON format**
• Devised a **custom HTML form** to post and save the user-submitted **data into a Google Spreadsheet** by leveraging **Google Apps Script**

COURSEWORK INFORMATION

Programming and Data Structures* | Object-Oriented Systems Design | Compiler Design | Systems Programming | Operating Systems | File Organization and Database Systems | Entrepreneurship Essentials | Market Microstructure   *[* - includes laboratory]*

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

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 the user traffic** with **8m 12s average engagement time**
• Deployed the applications on **Amazon Web Services EC2** and **maintained a physical server** of the Technology Students' Gymkhana

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 web team and **mentored** them in learning **Bootstrap Layouts, JavaScript, Python and Django**

EXTRA CURRICULAR ACTIVITIES

• Member of the **gold-winning** Volleyball Team of Lala Lajpat Rai Hall of Residence in the Inter Hall Gymkhana Championship 2021-2022
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
Volunteer Experience
• Recognised as the **best volunteer** of the **gold-winning team** in the NSS Annual Camp 2019; Participated in the **cloth-collection** drive
• Conducted a **tree plantation drive 2022**, planting **15 saplings** in Gopali Village; Led the **COVID fundraising campaign 2021** at GYWS