Pranayan Metiya

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EDUCATION

Indian Institute of Technology, Kharagpur   **2019 - 2023**
B.Tech. in Mechanical Engineering

WORK EXPERIENCE

Software Engineer, *Loop AI (Remote)*   **Sep '23 - Present**
- Built dynamic filters with **React, Material UI** and **SWR** and used data structures and design patterns to improve performance by approx **10x**
- Created an alternative component of **CsvBox** in the UI library to allow easier **parsing of CSV** files with advanced validations and live editing
- Contributed to backend by creating APIs using **FastAPI, PostgreSQL** and **Google BigQuery** to reduce dependency and increase bandwidth
- Established end-to-end testing of customer facing dashboard with **Cypress** and integrated it with **GitHub actions** to prevent regressions

Software Quality Engineering Intern, *Mastercard (Pune)*   **May '22 - Jul '22**
- Built an automated end-to-end test framework using **Java & Selenium** to allow developers to build/update features safely and deploy faster
- Executed **15 test scenarios** (both success and failure), and caught **1 defect and 1 ambiguity**, while decreasing execution time by **~80%**
- Contributed to API development with **Python & FastAPI** by connecting with Oracle database using Jaydebeapi to serve realtime JSON data

Web Development Intern, *Alliance Bernstein (Mumbai)*   **Nov '21 - Feb '22**
- Created and redesigned frontend segment for **eight** web projects using **HTML, Bootstrap and Javascript**, for both internal and external use
- Integrated and optimized workflow of multiple **Flask APIs** performing CRUD operations on **100k+ of data entries** for smooth ease of use
- Utilised and customized several external plugins such as **Moment.js, Tabulator, Cropper.js, Highcharts** etc. for scalability and reliability

SKILLS AND EXPERTISE

Languages	C++ , Javascript , Python , Java , Typescript , SQL , HTML , CSS
Frameworks	React , FastAPI , Angular , Spring Boot , Ngrx , JQuery , Selenium , Cypress
Tools	Git , Firebase , Postman , Netlify , Maven

PROJECTS

Customisable Dashboard </>   *Jul '23*
- Built a dashboard in **Angular** that displays KPIs and charts and allows users to customise features such as page layout, chart type and size
- Used **Ngrx** for state management while fetching data from a local JSON file disguised as a fake API endpoint with the help of json-server
- Wrote and executed unit tests with **Jasmine** and **Karma** to achieve code coverage of approximately **90%**, completed the project in a **week**

Gymlogger ⧉ </>   *May '23*
- Built a single user web app to add and save exercises, record and revisit daily workouts, and track progress over time with visual charts
- Used **React and Tailwind CSS** to build a user friendly interface with reusable components and **Firebase Firestore** as database and API

Deadline Kab Hai ⧉   *Jan - Sep '22*
- Conceptualized and developed a website to keep track of deadlines and tests allowing users to select their subjects and see respective tasks
- Used **HTML, CSS, JQuery and Bootstrap** to build the frontend, and **Google Sheets and Airtable APIs** for storing and transferring data
- Reached a total of **400+ users** with **estimated 60 DAUs**, collecting **over 100 deadlines** in the process over the length of two semesters

Automail   *Nov - Dec '20*
- Built a script using **Python, Gmail API and Requests**, that **periodically listens for incoming emails** in a specified Gmail account
- The script checks whether the sender ID and subject of the unread mails match certain criteria, and **classifies them as important** or not
- If any important mail is found, an **automated call** is immediately made to the provided phone number using **Twilio API** calling service

ACHIEVEMENTS

- Participated in **Hacktoberfest 2021**, making a total of **5 contributions** in webapp projects, improving the design and UI and adding features
- Participated in **Kharagpur Winter of Code 2020**, completing **3 contributions** in web development and **5 contributions** in DSA projects
- Ranked in the **top 1% (2255 out of approximately 230K+)** students in **Joint (Advanced) 2019**, securing admission in **IIT Kharagpur**
- Won the prestigious **Jagadis Bose National Science Talent Search (Senior)** scholarship in 2019, with a **rank of 44** out of 1k+ applicants

EXTRA CURRICULAR ACTIVITIES

- Co-founded and headed the development team of Gready Solutions, an infotech forum about phones, laptops and other electronic devices
- Helped with kids' education from a small local primary school and performed welfare work in a nearby village as part of NSS IIT Kharagpur
- Associated with Carnot Mentorship for from August '20 to March '21, helping high school students in their preparations for entrance tests
- Actively engaged with Bronze winning Rangoli Team representing Rajendra Prasad Hall of Residence in Inter Hall Rangoli Competition