Cover Letter

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How did you find out about our mentorship program?

I found out about the LFX mentorship program through my college seniors. On exploring the site, I saw the program listed under open applications.

Why are you interested in this program?

I've been using TypeScript for more than a year and have made many projects using it. I did my GSoC like internship under Element.io (a subsidiary of Matrix.org) which was based on TypeScript. Along with building TypeScript projects I've also written frontend tests for the same. I have expertise in writing raw CSS, using libraries like Bootstrap, Tailwind CSS and Material UI. Hence, the skills required in the project overlapped with my skills and this is a big motivation for me as the practical application of knowledge is always the best learning mode. It will also help in enhancing my golang skills. In addition, the main driving factor which makes me contribute to the community is that work done will somehow contribute to the community in the short as well as long term.

What experience and knowledge/skills do you have that are applicable to this program?

I have been working on open source for almost 2 years with more than **1.4k** contributions on GitHub. I've done various internships in my OSS journey, some of them are:

- **Summer of Bitcoin' 22 @ Specter Desktop:**
  I did my Summer of Bitcoin'22 under Specter Desktop, where I implemented JWT Authentication to REST API for improving the security of the API and making the API more scalable. I also wrote the pytests for the same. The project was implemented in Flask, with which I had no prior experience but I knew Django so I caught up quickly with Flask and finished the project on time.

- **GSoC like internship @ Element.io/Matrix.org:**
  Since I was not a beginner to open source and didn't fall into the beginner to open-source guidelines of GSoC, I was offered an internship instead of an official GSoC project under Element.io (a subsidiary of Matrix.org), where I did the implementation of creating knockable rooms and wrote cypress tests for the same. Knocking is the feature that enables users to send a request to join any room or space. The language used was TypeScript and the whole project was based on MERN.

I've expertise in TypeScript and CSS and am currently learning Go. I've written frontend tests (storybook and cypress tests) for some of my projects and in my internships as well. More importantly, I am willing to work hard and give my best to make this a successful project.

Moreover, I'm currently contributing to testgrid, I have raised a PR (#1131) that is on the verge of getting merged and am working on issue #1123. This has helped me get familiar with the codebase and other specs of testgrid.

What do you hope to get out of this mentorship experience?

By the end of the mentorship, I hope to have a deeper knowledge of Go and making some valuable contributions to this sector. However, the most valuable thing which I hope to get out of this mentorship is **guidance** and **experience** which will help me throughout my life.

Rough Work/ Implementation of the Desired Task

- Currently, http://testgrid.k8s.io has a basic UI, which can be updated by designing new Lit components.
- For styling, Tailwind CSS can be used.
- Moreover, there is excessive padding on the bottom half of the page which can be made dynamic as the components get rendered.
- I'm planning to create Lit components in the following order:
  - Card (this will contain a single object data fetched from API)
  - Dashboard
  - Dark mode/Easter Egg Themes toggler
  - Index
  - Environments Bar
  - Summary
  - ProwJobs

- All of the above components will be dynamic and responsive.
- Last but not the least, I would take help from my mentor and discuss the approaches and ideas with him as well as other members of the community to apply things that will be best suited for the project.