



## XROS Fellowship 2023

The Fashion Galleria

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**[Metaverse version of this proposal!](#)**

### Name and Contact Information

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## Synopsis

The Virtual Fashion Galleria (VFG) is a gamified experience platform that allows users to customize different metaverse-ready fashion items before purchase. It is an interoperable virtual fashion wearable platform that allows users to have their wearables all in one place. Essentially, VFG is an online marketplace where users can browse and purchase virtual fashion items, as well as personalize them using various customization features. The platform also includes gamification elements to make the experience more engaging and enjoyable for users.

## Project Timeline

Project Period(May 25, 2023 - June 25, 2023)	
Mar 25, 2023 - Apr 7, 2023	<ul style="list-style-type: none"><li>● Get familiar with the codebase and the mentors.</li><li>● Discuss my approaches, logic, and milestones with the mentor.</li><li>● Setup the project on my local machine for development and start off.</li></ul>

Apr 8, 2023 - Apr 21, 2023	<ul style="list-style-type: none"><li>• Develop a user interface and user experience design for the platform.</li><li>• Define the gamification elements and integration within the platform.</li><li>• Create wireframes and mockups for the platform's main features.</li></ul>
Apr 22, 2023 - May 5, 2023	<ul style="list-style-type: none"><li>• Develop the database architecture for the platform.</li><li>• Create the backend and API for the platform.</li><li>• Develop the basic functionality for the platform, including the ability to create an account, log in, and browse virtual fashion items.</li></ul>
May 6, 2023 - May 19, 2023	<ul style="list-style-type: none"><li>• Develop the customization features, allowing users to personalize their virtual fashion items.</li><li>• Integrate the gamification elements within the customization features.</li><li>• Test the platform for any</li></ul>

	bugs or errors.
May 20, 2023 - Jun 2, 2023	<ul style="list-style-type: none"> <li>• Develop the interoperability feature, allowing users to have their virtual wearables all in one place.</li> <li>• Test the interoperability feature to ensure it functions as expected.</li> <li>• Begin testing the platform with a small group of beta testers.</li> </ul>
Jun 3, 2023 - Jun 25, 2023	<ul style="list-style-type: none"> <li>• Prepare for launch by finalizing the branding and marketing materials.</li> <li>• Launch the platform and continue to monitor and improve it based on user feedback.</li> </ul>

## Future Deliverables

I intend to stay with the community after the XROS fellowship and will try to optimize the project. I'll keep on contributing to improving the features of the Hacedor. It would give me immense pleasure to be a part of the Hacedor community and improve the lives of those who use its products.

## About me

I am **Paarth Agarwal**, a seasoned open-source developer pursuing my undergrad at the Indian Institute of Technology (BHU) Varanasi, India, in my third year. I have experience in building REST APIs, JAMstack / full-stack web applications, and test-driven development. I am a **Full-Stack developer** with proficiency in **HTML, CSS, Javascript, Reactjs, Nodejs, Python, Typescript, ThreeJs, Blender, Docker and Github**. I love exploring new tech and have worked with various technologies and languages. I love contributing to the open-source community and building something other developers can use.



### GSoC 2022 with Wagtail

Last year, I completed a **GSoC project with Wagtail**. During the project, I applied shared **Django templates** across the whole CMS, worked with the Python backend, **modified React components** and functions, created new ones, and added components to the Wagtail **pattern library** for smoother testing. I also did some **heavy unit testing with Jest, Typescript and Python Testing**. As a result, we ended up making Wagtail more maintainable and accessible than ever before. The details of the documentation and GSoC project can be found in my final GSoC blog post.

Link to my blog -

<https://wagtail.org/blog/open-source-internship-ux-unification/>



## LFX'23 Mentee at CNCF-Harbor

LFX mentorship is an internship program offered by The Linux Foundation. I have been accepted as a mentee to the [CNCF - Harbor: Harbor Robot accounts with full Harbor API access](#) mentorship. In this project, we aim to give Robot accounts access to the full Harbor API. Technologies I'm using in this project - **DevOps, Docker, Go, Javascript, Angular, Clarity and UX.**



## Mentored for Outreachy

Even after GSoC, I remained involved with Wagtail. I was invited to **mentor an intern** for the “**Introduce Stimulus for interactive widgets within Wagtail**” project for [Outreachy](#) December Cohort. Wagtail was initially built on jQuery, vanilla JavaScript, React, and Bootstrap. In this project, we consolidate most of those UI widgets into the Stimulus framework. Other than that, I **pair programmed** with my intern Loveth Omokaro from Nigeria, **reviewed PRs and learnt how to work collaboratively.**

Technologies used - **React, Typescript, StimulusJS, Django.**

I was also invited as a guest for the mentor's coffee chat which was live-streamed on Youtube.

Link to my talk -

<https://www.youtube.com/live/iG-fNyAyat8?feature=share>



## Contributions to other open source projects

I've contributed to various blockchain projects like [Specter Desktop](#), [Rust-Bitcoin](#), [Fedimint](#) involving technologies like Python, Bitcoin

API and Rust language. The complete list of contributions can be found in my [Github profile](#) contribution overview chart.



### **Built the institute's R&D website**

I along with a team of 4 members, rebuilt our Institute's new RnD website. Technologies used - **HTML, CSS, Next.js, Tailwind, Vercel.**

Link to project - <https://iitbhu-rnd-one.vercel.app/>



### **Postman Student Expert**

I've been using Postman for years now for API testing. So I took up the Postman API Fundamentals to learn more about it and at the end of the course I aced the assignment and was awarded a badge. My learnings:

- How to use Postman to work with APIs
- Making GET, POST, PATCH, and DELETE requests
- Query parameters, bodies, headers, response codes
- Basic scripting
- API Key Authorization
- How to use APIs in your applications

### **My designs**

I've made several posters and thumbnails for the SCS, a non-profit student body in my college, and designed presentations using Figma.

Some of my creations: [Designed by Paarth – Figma](#)



## Why Me?

I'm a versatile developer working with DevOps, blockchain and web2 technologies altogether. My most incredible skill is **figuring things out along the way**. I know the required technologies, and as I shared some of my accomplishments above, I've hands-on working experience with all of those. I'm fun to be around and good at communicating and expressing my idea. My passion for open source and never give up attitude when it comes to software development sets me apart from others. I am excited about the opportunity to work on this project and will work as hard as I have to make this project a grand success.

I have created a [gamified version of this proposal](#). Be sure to check it out!