

## Ready to apply for the MLH Fellowship? (Page 1 /10)



Hey, there! We're so excited to hear that you're interested in becoming an MLH Fellow in our upcoming batch.

At Major League Hacking (MLH) we know the power of hands-on learning first-hand. Every year, more than 135,000 aspiring technologists around the world participate in MLH events where they learn the skills that help them land jobs, launch startups, and everything in between. You can't learn these necessary skills in most classrooms, which is why so many people take their education into their own hands and join our community every year.

The MLH Fellowship is a collection of programs designed to make learning these skills easy, fun, and fast. By pairing educational and fun content with practice experience, you can learn a lot in a very short period of time. Whether you're looking to build out your initial portfolio of personal projects, polish up a project you're passionate about, or start contributing to Open Source, we have a program for you.

### Upcoming Terms and Deadlines

- Fall 2023: Starts 18 September 2023
  - Deadline for Applicants from Asia: 31 July 2023
  - Deadline for Applicants from other regions: 31 August 2023
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- Spring 2024: Starts 29 January 2024
  - Deadline for Applicants from Asia: 30 November 2023
  - Deadline for Applicants from other regions: 31 December 2023

***The application takes approximately 30-45 minutes to complete. You can save your work at any time and come back to it in the future.***

## Eligibility Check (Page 2 /10)

Before we get too far along, let's confirm your eligibility for the program. In order to apply for this program you must meet **all** of the criteria listed below.

Instructions

**Congratulations! You are qualified to apply for the MLH Fellowship. Click "Next Page" below to continue your application.**

Program Qualification Confirmation

- **Age: I am over the age of 18.**
- **Residency: I do not reside in a country embargoed by the United States.**
- **Time Commitment: I am able to commit at least 20 hours per week to the program.**
- **Communication: I am proficient with English, both written and spoken.**
- **Coding Experience: I can code proficiently in at least one programming language.**
- **Environment: I have regular access to quiet workspace for meetings & coding.**
- **A/V Setup: I have regular access to a video call quality Internet connection, webcam, & microphone.**

## Create your Profile (Page 3 /10)

Let's start by collecting some basic information about you and where we can find you on the internet.

### Basic Information

First Name Last Name

**Yana Gupta**

Primary Email Address

**yanagupta897@gmail.com**

### Portfolio/Resume

We ask you to share a copy of your resume and links to your online profiles to help us better understand your experience level and background. The more information you can share with us, the better!

*You must share **at least one** of the listed items with us to submit an application. Uncheck the box next to anything that you don't currently have.*

Which of the following do you have that you can you share with us?

- **Resume**
- **GitHub Profile**
- **LinkedIn Profile**
- **Personal Website / Portfolio**

Resume

**Yana\_Gupta\_IIT.pdf**

GitHub

GitHub Handle

**http://github.com/ yana-gupta**

LinkedIn LinkedIn Handle  
**[http://linkedin.com/in/ yana-gupta](http://linkedin.com/in/yana-gupta)**

Personal Website URL  
**<https://yanagupta.me/>**

## Programs (Page 4 /10)

The MLH Fellowship is a collection of 12-week programs designed to help you level up your tech skills quickly. Whether you're looking to build out your initial portfolio of personal projects, start contributing to Open Source, or gain practical experience solving real problems for companies, we have a program for you.

In this section you'll learn about some of the key ideas behind the fellowship and tell us which programs you're interested in.

### Citizenship / Visa Status

Some opportunities require you to hold citizenship or a visa in your country of residence or the country where the employment partner sponsoring your participation is located.

Country

**India**

In which country will you primarily reside in during the program, if accepted?

**India**

Do you have work authorization in any additional countries?

**No**

### Program Selection

Which program type would you like to apply for?

**MLH Fellowship Program**

Which programs(s) would you like to be considered for?

**- Software Engineering  
- Site Reliability Engineering  
- Web3 Engineering**

Term

**Spring 2024 (January 29th  
- April 19th, 2024)**

### Scheduling Preferences

Time Commitment

**- I am able to commit at least 20 hours per week to the program.**

During which time blocks are you available to meet with staff or other Fellows, should you be admitted?

**- 01:00 GMT  
- 02:00 GMT**

- 12:30 GMT
- 15:00 GMT
- 18:00 GMT
- 19:00 GMT
- 20:00 GMT
- 21:00 GMT
- 22:00 GMT
- 23:00 GMT

Education Experience (Page 5 /10)

Overview

Are you currently enrolled as a student in an academic institution?  
**Yes**

Current Academic Experience

Current Institution Name	Current Institution Type
<b>Atal Bihari Vajpayee Indian Institute of Information Technology and Mangement</b>	<b>University - Undergraduate (3-5 year degree)</b>
Expected Graduation Month	Expected Graduation Year
<b>May</b>	<b>2025</b>
Major	
<b>Information Technology</b>	
Type of Credential Granted	
<b>Degree</b>	

Professional/Work Experience (Page 6 /10)

Overview

Are you planning to look for a coding job in the next 12 months?  
**Yes, I will be looking within 12 months**

Job Search

You indicated you'll be looking for a coding job within the next 12 months. Tell us about your plans.

When would you be looking to start that job/internship?  
**Immediately / Within 4 months**

Are you open to remote work opportunities?

**Yes, I'm exclusively looking for remote opportunities**

## Developer Experience (Page 7 /10)

### Experience

Please rate your level of familiarity with the following programming languages:

Android (Java/Kotlin)

**Very unfamiliar, have never used**

C

**Somewhat proficient, use occasionally**

C++

**Somewhat proficient, use occasionally**

Rust

**Very unfamiliar, have never used**

Go

**Somewhat unfamiliar, have used before but am not comfortable**

iOS (Swift/Objective-C)

**Very unfamiliar, have never used**

Java (Non-Android)

**Very unfamiliar, have never used**

JavaScript

**Very proficient, use frequently**

TypeScript

**Very proficient, use frequently**

Julia

**Very unfamiliar, have never used**

PHP

**Very unfamiliar, have never used**

Python

**Somewhat proficient, use occasionally**

Ruby

**Very unfamiliar, have never used**

SQL (MySQL, PostgreSQL, etc.)

**Somewhat proficient, use occasionally**

Haskell

**Very unfamiliar, have never used**

OCaml

**Very unfamiliar, have never used**

Please list any programming languages with which you are proficient not listed above:

Which of the following have you done before?

- **Built a website with HTML, CSS, and JavaScript**
- **Built a frontend web application using a front-end framework**
- **Built a web server or API**
- **Posted or pulled data from an API**
- **Used Git to create and merge pull requests**
- **Written unit tests**
- **Used a package manager**
- **Have contributed to Open Source**
- **Asked a question on Stack Overflow**

## Interests

Which of the following areas do you have specific interests in?

- **Back-end Development (Web & Mobile)**
- **Blockchain/Web3**
- **CI/CD**
- **Cloud Computing**
- **Cybersecurity**
- **Databases (Design & Architecture)**
- **DevOps**
- **Front-end Development**
- **Web APIs (REST & GraphQL)**

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## Code Sample (Page 8 /10)

### Overview

At Major League Hacking we don't believe in whiteboarding interviews. Instead, we prefer to talk about the code you've written. As part of your application you should submit a code sample that you feel demonstrates your abilities. We'll review this sample ourselves while looking over your application. If you're invited to a tech interview, you'll talk about this specific code with your interviewer.

#### Code Sample Requirements:

- **Representative:** The sample should be representative of your abilities. If you're submitting a group project, make sure you contributed a substantial amount of code. Projects that are based mostly on a tutorial aren't representative of your own abilities.
- **Existing sample:** This is code that you wrote for a purpose other than this application.
- **Public on GitHub:** Your sample should be viewable on GitHub publicly. If you can't make the repository public, convert your code to a secret GitHub Gist instead.
- **Multiple files:** Your sample should consist of multiple files and be of substance. It's hard to have a conversation about a single function.

- **Not too large:** It's difficult to have a conversation about a mono-repo with dozens of microservices. It should be immediately clear what you contributed to the sample. Dense frameworks with lots of boilerplate such as Django or Laravel don't usually make for good code samples. Lightweight frameworks such as Flask and Express are good examples.
- **Real problem:** Your sample should solve a real problem or accomplish a real goal. While some class projects will meet this criteria, most won't. There's nothing wrong with the binary search tree you wrote, but it'll be hard for your interviewers to get to know you through that kind of sample.
- **No Jupyter notebooks:** We need to see your ability to write a project that an end user can use. It should be deployable. We don't accept Jupyter notebooks or other exploratory code samples because it's difficult to have a conversation about your coding skills with these.
- **Aligned with our available tracks:** The Fellowship currently supports projects primarily in the following coding languages: **JavaScript, TypeScript, Python** (especially the SRE track), and **Rust** (especially the Web3 track). You will give yourself the best chance of admission if you submit a project in one of those languages. You may still submit in any language you like, but you may be asked to provide a supplemental code sample later in the admissions process in order for us to assess your proficiency.

**Examples of good code samples**

- A web app with JavaScript
- A web server (backend only)
- A desktop app
- A command line app

**Examples of poor code samples**

- Jupyter notebooks
- Tutorials
- Simple static sites with no logic (*i.e. without JavaScript / similar*)
- Algorithm implementations / competitive coding solutions
- University or bootcamp coursework (*as these often contain too much boilerplate and aren't representative of your own abilities*)

**What to do if you don't have an appropriate code sample:**

If you don't have a relevant code sample, our best advice is to attend one of the [upcoming MLH hackathons](#) and submit whatever you build there. MLH has hackathons taking place every weekend of the year and they are open to both students and professionals.

**Code Sample**

Code Sample	GitHub URL	Which programming language/technology are your contributions to this code sample primarily written in?	Appropriate Code Sample Confirmation	Briefly describe what this code sample does:	Briefly describe what you learned when you created this code sample:
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<https://github.com/Yana-TypeScript> (SWE, Gupta/rce Web3)

- I understand that the MLH Fellowship tracks primarily require proficiency in JavaScript, TypeScript, Python, or Rust, and that if I have submitted a code sample in another language, I may be asked to provide a supplemental code sample.

Coder stands as a versatile code execution platform, providing a dynamic code sandbox supporting major programming languages like C, C++, Python, Java, Go, Rust, and JavaScript. Its user-friendly interface includes authentication features, allowing users to effortlessly log in, sign up, and modify credentials. The code editor, with syntax highlighting and two theme options, enables real-time code execution with just a click. Django for the backend, Vite for React in the frontend, TypeScript, SQLite database, and Docker for containerization, Coder ensures a robust tech stack for reliability. Users can initiate the platform effortlessly using Docker (docker composer up) or by following specified instructions for

The project provided me a comprehensive learning opportunity in full-stack development, showcasing proficiency in : diverse programming languages, user authentication, code editor implementation, containerization with Docker and aws deployment on EC2 instance. The project also provide me gain experience working in non javascript backend framework like django. The project's documentation and attention to user experience details further underscore a holistic approach to software development. Noteworthy leadership roles and mentorship, as well as a demonstrated problem-solving mindset, enhance the overall learning experience. In summary, this project offers a multifaceted insight into web development, technical



a local environment. In essence, Coder not only provides an interactive coding environment but also emphasizes simplicity, making it an essential tool for running and testing code snippets across 8 programming languages. versatility, collaborative practices, and a commitment to continuous improvement.

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## Essay Questions

*Essays are an important part of how we evaluate applicants for the MLH Fellowship. Make sure you include enough information to help us understand who you are, why you want to be an MLH Fellow, and what you would bring to the program.*

***Your essays are your first impression to our admissions team. The best essays show us how passionate you are about this opportunity and give us lots of detail about you and your interests. Take your time here and show the best possible version of yourself! There is no word count minimum, but we recommend at least a paragraph or two for each essay.***

*We recognize that many applicants will want to use AI-enhancing tools to polish their essays (ChatGPT, Bard, etc.) While we recognize the value that these tools can provide in enhancing or streamlining your writing, we have found that applicants who rely too heavily on these tools are unlikely to be ready for the high-level communications required to participate in the program. Our recommendation is to write your own personalized essays from scratch and only use AI tools for enhancements or corrections. Submitting a fully AI-crafted essay may result in your disqualification.*

Why do you want to become an MLH Fellow?

**As a tech and an open source enthusiast, getting a chance to get into the MLH Fellowship program will provide me an opportunity to collaborate with like-minded people and work on the open source project. Also, I will be provided an opportunity to work on real-world problems and brush my coding and problem-solving skills. The industry mentor's guidance is also a plus point for applying. As a fully remote program, I need not go anywhere to gain experience and can contribute to the program from home. The practical experience I will get during my student life will help me in the future. Participating in hackathons during fellowship with my teammates will be enjoyable and help me sharpen my development skills. As the program is a community program I will get the chance to learn community management. Communication and**

community management are the two most important skills in a development career. Also by joining the community of a global program like MLH, I will have the privilege to meet with different people all over the world and collaborate with them. I believe that I will perform good work and form good connections throughout the fellowship term with my co-fellows and the mentor. At last, in my view, the MLH fellowship is a chance for students like me to showcase and improve their development and problem-solving skills and form meaningful connections with like-minded people and industrial mentors. Being an MLH fellow I will get good learnings, and form good connections for my future development journey. I believe if get selected for the program I will put in my best efforts and make a meaningful contribution to the community and the experience I will get in return will help me in my future development career. In becoming an MLH fellow, I aspire to not only advance my technical skills but also to contribute meaningfully to the community, fostering an environment of collaborative growth and innovation.

The MLH Fellowship is a diverse community that welcomes Fellows from a wide range of experiences and backgrounds. What perspective or experience will you bring to the fellowship to strengthen our community?

Throughout college, in my tech journey, working as an intern at startups, and contributing to open source I have worked on several projects and collaborated with different individuals. I have experience in web development and an understanding of DevOps, Data Structures, Algorithms, and blockchain technology. Currently, I am learning DevOps. All of my experiences have provided me with efficient communication skills and have provided work experience in the industry. As an open-source contributor, I do have knowledge of community management. All of these experiences have sharpened my development skills and given me practical knowledge of the industry. As a passionate individual about technology, I am always willing to learn new skills and work on boosting my skillset. I appreciate meeting new people and sharing knowledge and experience with them. I enjoy working on myself. I am also proficient in English communication. My skills, knowledge, communication, problem-solving skills, and willingness to learn will contribute to strengthening the MLH Fellowship Community. At last, if provided the chance I will put my best into the community, my primary objective is to get the best experience and give the best work to the community.

Anything else we should know about you?

In addition to my technical skills and passion for open source, I bring a proactive approach to problem-solving and a commitment to continuous learning. I thrive in collaborative environments, enjoy taking on new challenges, and am dedicated to making a positive impact within the tech community. I also enjoy connecting with people from different backgrounds and sharing knowledge and experience with them. I believe in constant learning and working on myself. I am also eager to explore different domains. Currently, I am learning more about cloud computing and working on core concepts of CS. Apart I enjoy working in a group and taking part in group activities. I am always open to connecting with new people. I spend my time practicing, learning, and self-development. Apart from CS, I am also interested in Finance and Politics. I am eager to embrace the opportunities and challenges presented by the MLH Fellowship, leveraging my skills and experiences to enhance the collective growth of the community.

**Optional Questions (Page 10 /10)****Demographics**

We invite applicants to self-identify as to their pronouns, gender, race/ethnicity, and veteran status. Completion of this form is entirely voluntary and declining to provide this information will not subject you to adverse treatment. Any information that you do provide will be maintained confidentially and will not be shared.

All individuals seeking to join the MLH Fellowship are considered without regard to race, color, religion, national origin, age, sex, marital status, ancestry, physical or mental disability, veteran status, gender identity, sexual orientation, or any other legally protected characteristic. You are being given the opportunity to provide the following information in order to help us measure our own diversity and inclusion efforts and to comply with applicable federal and state Equal Employment Opportunity record-keeping and reporting obligations.

What are your pronouns?

**She/Her**

Gender Race/Ethnicity

**Female Indian**

Do you identify as part of an underrepresented group in the technology industry?

**No**

**Misc.**

How did you hear about the MLH Fellowship?

**I saw it on a Job Board (Indeed, LinkedIn, etc.)**

Stay Informed about the MLH Fellowship:

**- I authorize MLH to send me occasional emails about relevant events, career opportunities, and community announcements**

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**- I authorize MLH to send me occasional emails about relevant events, career opportunities, and community announcements**

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*Attached File:*

Yana\_Gupta\_IIT.pdf (71 KB)