



Mentorship Program

November 2021
Elizabeth K. Joseph, IBM
@pleia2

The Open Mainframe Project



Vision: The mainframe is an active, integrated, and essential part of modern enterprise IT, consumable by mainstream developers and users, and driven by a vibrant open source community.

Mission: To achieve the vision of the Open Mainframe Project by...

- **Setting a high bar for application development on the mainframe** through documentation, API development, and a security-first approach.
- **Showcase the mainframe of today** to both the mainframe ecosystem as well as the broad enterprise IT community.
- **Enable the mainframe to be more consumable by developers** with a transparent experience in leveraging the value propositions of the mainframe.
- **Ensure the mainframe aligns well in the changing enterprise IT landscape** of cloud-native and DevOps.



OPEN **MAINFRAME** PROJECT

MENTORSHIP



Mentorship Program Overview



Mentees apply to work on specific projects that are participating in the current round of mentorships (stay tuned for the next round!)

The Open Mainframe Project funds mentees to complete projects during the [LFX Mentorship](#) terms.

Upon successful completion of the mentorship, mentees are invited to present at an industry conference. The Open Mainframe Project provides a [stipend](#) for selected mentees.

Mentorship Requirements



- Be at least 18 years old by the time the mentorship program starts.
- Be eligible to work in the country and jurisdiction where you will be participating in the mentorship program.

Full requirements for LFX mentorships outlined at <https://docs.linuxfoundation.org/lfx/mentorship/mentees>

For Open Mainframe Project mentorships, **you don't necessarily need to know about mainframes or open source**, but some experience with the programming language used in the project will increase your chances of being selected for the program.

Program timeline



- Mentorship applications typically open a few months before the term, applications are open for 4 weeks, and mentees are notified a couple weeks before the term begins
- Mentorship duration - three months (12 weeks)
 - Week 1: Mentorship program begins with the initial work assignments
 - End of Week 6: Midterm mentee evaluations due and first stipend payment (50% of the total amount) approvals
 - End of Week 12: Final mentee evaluations and mentee feedback/blog submission due, second and second stipend payment (50% of the total amount) approvals
- Subject to change, see <https://docs.linuxfoundation.org/lfx/mentorship/mentorship-program-timelines> for latest details (seasons in northern hemisphere lingo – sorry!)

SOFTWARE DISCOVERY TOOL MENTORSHIP WORK

- Basic UI improvements
- Text explaining what the website is and...
 - Linking to the Open Mainframe Project
 - Adding a Contribute link to GitHub repo (footer?)
- Support for z/OS
- Backend JSON file for open source z/OS applications
- Improvements to FAQ, including how to Bring Your Own JSON file back ends
- Improvements to Documentation
- Stretch goal: API for querying JSON back ends
- Stretch goal: Backend JSON files for Debian, openSUSE, ClefOS, etc
- Stretch goal: CI/CD (by OMP)
- Stretch goal: Hosted instance of tool (by OMP)

Expectations



- Work with your mentor to develop a plan for work over the 12 weeks, and publish a design document for the mentorship committee to review
- Regular meetings with your mentor
- Weekly progress reports with constant progress towards milestones

Weekly Status Reports



Status Reports Folder

Weekly/bi-weekly status reports go into this folder

Status Report Template: <https://github.com/openmainframeproject-internship/resources/blob/master/fo>

Document	Description	Document Name
Project Plan	Overall week by week plan of milestones	project_plan.md
Week 1 Status Report	Initial UI change and Renaming tasks	Week01.md
Week 2 Status Report	Improvising main repo and initialising data repo	Week02.md
Week 3 Status Report	Git submodules and auto pulling PDS data	Week03.md
Week 4 Status Report	z/OS data import done, Debian pkg initialising	Week04.md
Week 5 Status Report	Added description feature	Week05.md
Week 6 Status Report	Debian Import done, more UI fixations	Week06.md
Week 7 Status Report	ClefOS data import done, automate script added	Week07.md
Week 8 Status Report	UI updates with FAQ improvements	Week08.md
Week 9 Status Report	SUSE data lists added, test CI/CD done	Week09.md
Week 10 Status Report	Fedora data added, updated distro script	Week10.md
Week 11 Status Report	Successful test deployment with deploy repo	Week11.md
Week 12 Status Report	Debian Bullseye sources integrated	Week12.md

Software Discovery Tool Weekly Report: Week 4

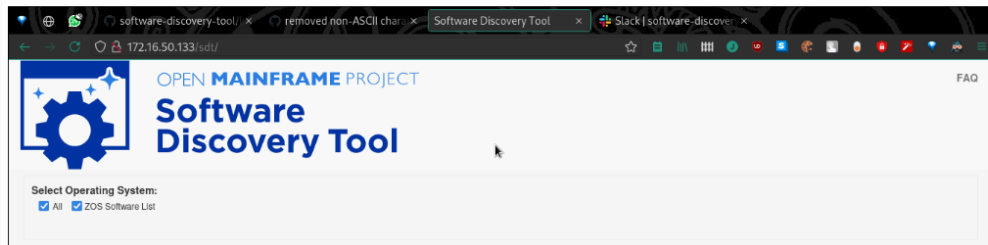
21-25 June 2021

Project Members

- Elizabeth K. Joseph (Mentor)
- Indranil Mandal (Student)
- Divya Goswami (Student)

Accomplishments for the week

- Identified [Issue 5](#)
- Initial distro data for z/OS done! [PR 6](#)
- Identified [Issue 7](#), solved with [PR 8](#) and will be more diligent about special characters in data files
- Identified [Issue 36](#)
- Documenting usage of git submodules and link completed in [PR 37](#)
- Identified [Issue 39](#)
- Preliminary import work for Debian JSON file support
- Working example for z/OS!

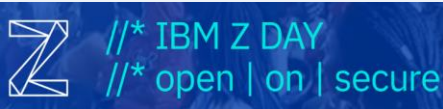


What you gain



- Mentorship from an industry professional who can connect you with others
- Experience developing a real software project used in the industry
- Learning how to collaborate on an open source project including public interactions on mailing lists, chat, and in code reviews
- All code going into the open, you can reference it on your CV!
- Opportunities to speak and write...

Speaking Opportunities



Speakers



Krushnal Patel

Student, Delhi Technological University

Krushnal is a pre-final year engineering student at Delhi Technological University with a major in Computer Engineering. He is part of the OMP mentorship of batch 2021. His fields of interest lie in Web Development and Robotics.



Tye Glenz

Intern, The Linux Foundation

I'm an intern for the Open Mainframe Education Project, and a senior at Robert Morris University. I will be graduating Fall 2021.



Innocent Onwukanjo

Mentee, Polycephaly

I am a DevOps Engineer with 3+ years of experience and a specialty in Automation and Infrastructure. I also build Backend Web applications using the Laravel framework. I contributed to the Polycephaly Project during the Summer mentorship.



Indranil Mandal

Mentee '21, Open Mainframe Project



Divya Goswami

DevSecOps, Trell

I am an independent security researcher with a DevOps background. I love debugging and disassembling code rather than writing code. I'm an Open source contributor, previously into OWASP, currently working with Open Mainframe Project, a collaboration between The Linux Foundation and... [Read More](#) →

15-Sept
11:30 AM

Looking for Open Source Software on Z? Meet the Software Discovery Tool!



Elizabeth K. Joseph
Developer Advocate
IBM



Divya Goswami
Student & IBM Z Ambassador
Heritage Institute of Technology

Writing Opportunities



Software Discovery Tool: A Mentee Perspective

By Open Mainframe Project | July 28, 2021 | Blog, Mentorship, Software Discovery Tool

Written by Divya Goswami, Open Mainframe Project Summer Mentee

Are you one of the folks who finds searching packages across multiple platforms an ordeal? If that's true then we at [Open Mainframe Project's](#) Software Discovery Tool team, which includes my fellow mentee, [Indranil Mandal](#) and mentor Elizabeth Joseph, are thrilled to say – we just made your life easier!



Divya Goswami, Indranil Mandal & Elizabeth Joseph

Software Discovery Tool (SDT) is a tool that helps you search for open source software available on IBM z/OSTM. We also have integrated automated ways to generate software sources from Debian 10 (Buster), ClefOS 7 and openSUSE Leap and Tumbleweed.

The screenshot shows a forum post on the IBM Community website. The post is titled "What open source software do you use/develop for z/OS? We need you!". It is categorized under "IBM Z and LinuxONE Community" and "Open Source for IBM Z and LinuxONE". The post was made by Indranil Mandal 3 months ago. The post content reads: "Hello open source community at the IBM Z, we are thrilled to announce that the [Software Discovery Tool](#) will soon be released on a production server. The project is an initiative of Elizabeth K. Joseph as a part of the Open Mainframe Mentorship Programme, along with mentees Indranil Mandal and Divya Goswami." Below the text is the "OPEN MAINFRAME PROJECT Software Discovery Tool" logo. At the bottom of the screenshot, there is a caption: "Our main goal was to collect and make packages from the IBM Z Architecture available for search, including open source software available for z/OS. As the tool grows, we've also continued to add packages from community-driven Linux distributions like Fedora, RHEL, ClefOS and OpenSUSE."

<https://www.openmainframeproject.org/blog/2021/07/28/software-discovery-tool-a-mentee-perspective> by Divya Goswami

<https://community.ibm.com/community/user/ibmz-and-linuxone/blogs/indranil-mandal/2021/08/14/software-discovery-tool-contribute> by Indranil Mandal



Other Resources



Mentorship Program Website:

<https://www.openmainframeproject.org/projects/mentorship-program>

Mentorship overview in GitHub: <https://github.com/openmainframeproject-internship/resources/blob/master/README.md>

Mentee guide: <https://github.com/openmainframeproject-internship/resources/blob/master/guides/mentee.md>