

Alibaba Summer of Code Proposal

Part 1 Biographical Information

Name: Sahil Jha

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School & Grade: Amity School of Engineering and Technology
(Junior year)

personal experience: I am an enthusiastic open source contributor, I have contributed to many open source organizations like CERN, Coala, Sugar Labs and Chaosblade-io. I have also led a team at nationwide hackathon Smart India Hackathon which was also the world's largest hackathon, recipient of Udacity's PyTorch and Secure AI challenge nano degree scholarship.

Your Skill: Cross-platform App development (Dart & Flutter), Web development (Flutter Hummingbird), Firebase, C/C++, python, PyTorch, git, GNU/Linux, Debian packaging.

Other Information:

GitHub profile - <https://github.com/sjha2048>

Linkedin profile - <https://www.linkedin.com/in/sjha2048>

Part 2 Your Proposal

*Problem description

For Alibaba summer of code, I am interested in working on this [issue](#).

Arthas currently doesn't have a Debian package and neither a RPM package so the users aren't able to install it from package managers.

My proposal is to package Arthas for both Debian(.deb) and Fedora (rpm) which will allow Debian and Fedora based users to install and use Arthas on their systems more easily.

Implementation plan

I plan to implement this problem using three tools which are listed below

- Debian Maven Plugin
- Maven RPM plugin
- gbp-buildpackage
- rpmdevtools
- makepkg

Deliverables

- Arthas Debian Package (deb)
- Arthas Fedora Package (rpm)
- proper documentation for both the packages
- If time allows then I would also be able to create package for arch linux i.e, users will able to install it from AUR and Pacman.
- regular maintenance of the packages

Timeline

July 1st - 7th July	Understanding the architecture and working of Arthas
July 8th - 14th July	<p>Begin the process of the Debian Package and making all the necessary tweaks for the Debian system</p> <p>Creation of</p> <ul style="list-style-type: none"> ● control file ● copyright ● changelog ● rules ● README.debian ● docs
July 15th - 21st July	Testing, documenting and deploying the debian package.
July 29th	Midterm Evaluation
August 1st - 6th August	<p>Begin the process of the RPM package and working on following</p> <ul style="list-style-type: none"> ● BUILD ● RPMS ● SOURCES ● SPECS ● SRPMS
August 7th - 13th August	Testing, documenting and deploying the RPM package.
August 19th - 25th August	<p>Begin the work on packaging Arthas for Arch Linux which will require the following things.</p> <ul style="list-style-type: none"> ● .pkginfo ● .buildinfo ● .mtree ● .install ● .changelog
August 29th	Final Evaluation

Other Information

I commit to work for 40+ hours per week and also to help in maintaining the community and the project.

previous contributions-

- <https://github.com/chaosblade-io/chaosblade/pull/91>
- <https://github.com/chaosblade-io/chaosblade/issues/90>
- <https://github.com/CERN/TIGRE/pull/118>
- <https://github.com/pythonindia/PyCon-Mobile-App/pull/81>
- https://github.com/sjha2048/Nishkarsh_Portal
- <https://github.com/sjha2048/trackgreen>

Work environment:

Pop_os! 19.04 and 25Mbps internet connection.