

Google Summer of Code 2018 Idea List

Links:

Website: <http://opencensus.io>

Github: <https://github.com/census-instrumentation>

Title: **Develop Nodejs library for OpenCensus tracing/stats**

Description:

- Implement Nodejs libraries for opencensus using Java/Go library as reference.
- Implement exporters to send trace/stats data to Stackdriver, Zipkin, Prometheus and other 3rdparty backends
- Instrument GCP client libraries and other 3rdparty frameworks to spread OpenCensus adoption
- Write examples/tutorials to showcase usecases.

Outcomes:

- NodeJS library
- Exporters
- Examples

Skills Required:

- Node, Javascript
- Java/Go
- Experience using git/github

Possible Mentors: Bogdan, Jaana, Emmanuel, Dino

Title: **Develop Ruby stats library for OpenCensus**

Description:

- Implement Ruby stats library for opencensus using Java/Go library as reference.
- Implement exporters to send trace/stats data to Stackdriver, Prometheus and other 3rdparty backends
- Instrument GCP client libraries and other 3rdparty frameworks to spread OpenCensus adoption
- Write examples/tutorials to showcase usecases.

Outcomes:

- Ruby stats library
- Exporters
- Examples

Skills Required:

- Ruby
- Java/Go
- Experience using git/github

Possible Mentors: Bogdan, Jaana, Emmanuel, Dino

Title: **Develop PHP stats library for OpenCensus**

Description:

- Implement PHP stats library for opencensus using Java/Go library as reference.
- Implement exporters to send trace/stats data to Stackdriver, Prometheus and other 3rdparty backends
- Instrument GCP client libraries and other 3rdparty frameworks to spread OpenCensus adoption
- Write examples/tutorials to showcase usecases.

Outcomes:

- PHP stats library
- Exporters
- Examples

Skills Required:

- PHP
- Java/Go
- Experience using git/github

Possible Mentors: Bogdan, Jaana, Emmanuel, Dino

Title: **Develop Python stats library for OpenCensus**

Description:

- Implement Python stats library for opencensus using Java/Go library as reference.
- Implement exporters to send trace/stats data to Stackdriver, Prometheus and other 3rdparty backends
- Instrument GCP client libraries and other 3rdparty frameworks to spread OpenCensus adoption
- Write examples/tutorials to showcase usecases.

Outcomes:

- Python stats library
- Exporters
- Examples

Skills Required:

- Python

- Java/Go
- Experience using git/github

Possible Mentors: Bogdan, Jaana, Emmanuel, Dino

Title: Instrument/Integrate OpenCensus with other opensource frameworks

Description:

- Instrument and integrate OpenCensus libraries with other opensource frameworks such as :
 - Spring
 - JDBC
 - Django

Outcomes:

- Examples, Usage
- Out of the box tracing/monitoring experience when using the frameworks

Skills Required:

- Familiarity with opensource frameworks
- Java/Go/Python/Ruby/PHP/C#/Erlang
- Experience using git/github

Possible Mentors: Bogdan, Jaana, Emmanuel, Dino

Title: Develop features for opencensus.io website

Description:

- Develop features to upgrade opencensus.io website
- Convert opencensus.io to use hugo framework
- Add features to allow editing of pages on github
- Add content to showcase usecases
- Add analytics and metrics to monitor opencensus adoption

Outcomes:

- Updated website with above mentioned features

Skills Required:

- Familiarity with opensource frameworks
- Javascript, Go
- [Hugo](#)
- Experience using git/github

Possible Mentors: Bogdan, Jaana, Emmanuel, Dino