


KUMAR AKSHAY

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ABOUT ME

Language	Python, Ruby, C/C++
Technology/Platform	Django, Ruby on Rails, Docker, Kubernetes, AWS, GCP
Open Source Contribution	Plone, CPython
MOOC	<u>Algorithms</u> , <u>Parallel Programming</u> , <u>Machine Learning</u> , <u>Neural Networks</u> ,


EXPERIENCE

SDE-1	HackerRank	Jul 2019 — present
<ul style="list-style-type: none">Improved search results of question library by 30%. Later, worked on improving its latency by restructuring API endpoints by 10%.Ownership of 3 different services that involve working with different languages and developing/improving features now and then.Took initiative in setting up CI/CD on Kubernetes for a new microservice to unblock teammates ahead of time while also working on different set of features.Leveraged Knowledge: Docker, Kubernetes, Elasticsearch, Ruby on Rails, Python, AWS.		
Mentor	Google Summer of Code (PSF)	May 2019 — Aug 2019
<ul style="list-style-type: none">Responsibility involves conducting biweekly sync-up, reviewing pull requests, guiding and helping in debugging the problem which student faces along the way.Leveraged Knowledge: Rust, Guillotina, Asyncio.		

INTERNSHIPS

SDE, Intern	HackerRank	Dec 2018 — Feb 2019
<ul style="list-style-type: none">Implemented Jaccard-similarity, sliding-window version of Levenshtein-distance and tf-idf to improve the accuracy of an internal tool by 23%.Added test case validation API endpoint for all data structures in the code-generator that minimized unintentional errors in test cases of custom questions created by other companies in HackerRank.Leveraged Knowledge: Jaccard Similarity, TF-IDF, DSL, Design Pattern, System Design, PHP.		
Participant	Google Summer of Code (Plone Foundation)	Apr 2018 — Aug 2018
<ul style="list-style-type: none">Improved unit test coverage by 6.66% and 2% in plonecli and bobtemplates.plone resp.Project Report: <u>Plonecli Wiki</u>, also voted as one of the most popular plone package at Plone Conf'18Leveraged Knowledge: Python debugger, Unit-testing, Integration testing, Plone development.		

PROJECTS

 github.com/kakshay21

GObject

- Implemented a persistence data layer to store transactional objects in rocksDB to reduce memory footprint in Guillotina which communicates using gRPC.
- Used:** Rust, gRPC, rocksDB, Python Asyncio, Guillotina.

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- Started this project to experiment with different concurrency in python which ended up becoming a pip package which is being used by many folks.
- Used:** Python, Asyncio, Multiprocessing.

Gensim (Open Source)

- Minimized processing time by 4x in word2vec pipeline after caching common words in dictionary.
- Extended word2vec functionality by implementing smooth-inverse-frequency and tf-idf methods to find sentence embedding which performed better in several evaluation tasks against doc2vec and sent2vec.
- Used:** Python generators, decorators, Gensim, API design, Benchmarking Features.

EDUCATION

Shri G.S. Institute of Technology and Science	Indore, IN
Bachelor of Engineering in Electronics and Telecommunication	Grad: June 2019

CONFERENCE TALKS

Plone Conference 2018	Nov 2018
Gave a talk on GSoC improvements on plonecli in the Plone Conference 2018 held at Tokyo.	