Kumar Akshay

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About Me

Technical Skills	Python, C/C++, PHP, Unix/Linux
Web/Tools/Platform	HTML/CSS, Django, Git, Plone, AWS, GCP, Firebase
MOOCs	Algorithms, Parallel Programming, Google Skill India Scholarship
	Machine Learning Foundation, Neural Networks and Deep Learning
Interests	Distributed Systems, Concurrency, Machine Learning

Experience

Google Summer of Code
Student Developer at Plone Foundation   Apr 2018 — Aug 2018

- Implemented several essential subtemplates like content_type, viewlet, view, portlet.
- Improved unit test coverage by 6.66% and 2% for plonecli and bobtemplates.plone resp.
- Complete project report is available at Plonecli Wiki

HealthifyMe   Bangalore, IN
Software Engineer Intern   Dec 2017 — Jan 2018

- Automated sales team work by implementing a dashboard in Django for user related work.
- Improved email validation API in the false negative score and reduced processing time by 64% from the previous version which impacted 30 thousand users out of 2.5 million users.
- Implemented data pipelines to optimize query read time for Data Science team by migrating tables to Google BigQuery.

Rare-Technologies (based in Russia)
Open Source Project on Gensim (NLP)   Dec 2017 — Feb 2018

- Minimized processing time by 4x in word2vec pipeline after caching common words in dictionary.
- Implemented smooth inverse frequency, averaging with TF-IDF weights to make sentence embedding from a pre-trained word2vec model.
- Achieved better results on Spearman and Pearson evaluation tasks against doc2vec and sent2vec.

Zoodify Labs   Bangalore, IN
Software Engineer Intern   Jun 2017 — Jul 2017

- Implemented Progressive Web App with Google LightHouse score of 92 and added Push notification using Firebase Cloud Functions.
- Compressed the image that is uploaded from iOS devices by 90% which increased storage space.

Projects   *github.com/kakshay21*

Verify Email

- Implemented a python library to verify emails and it's available as a pip package.
- Optimized performance using multithread, multiprocess and caches.

Aayaam (College event)

- 150+ students registered for the treasure hunt game which was deployed on AWS EC2 instance.
- Achieved highest rating of 4.8/5 among other events.

Raipur Hackathon

- Developed a Django based Webapp to track reviews and rating of nearby cleaned public toilets.
- Implemented a dashboard with ChartJs to show usage statics and visualizations in the form of graphs.

Education

Shri G.S. Institute of Technology and Science   Indore, IN
Bachelor of Engineering in Electronics and Telecommunication   Grad: Jun 2019
Courses: Data Structures, Operating Systems, Algorithms, Computer Networks

Position of responsibility

Member of Developer Team at Plone Foundation   Feb 18 — Present
Responsibility involves reviewing PRs and maintaining plonecli and bobtemplates.plone.

Head of Developer team at SGSITS Robotics Club   Nov 17 — Present
Mentored in several projects and organized workshops and robotic competitions.