

Tasdik Rahman

tasdikrahman@zoho.com • www.tasdikrahman.me •  /[tasdikrahman](https://github.com/tasdikrahman) • Contact No: 9920025129

WORK EXPERIENCE **Razorpay (YC W15), Bangalore:** *Infrastructure Engineer,* July, 2017 - Present

- Enabling scale @ Razorpay as part of a 4 member Infra team.

CISCO, Bangalore: *Software Engg. Intern, Security Business Group* Jan, 2017 - June, 2017

- Rewrote an internal service previously a monolith to a micro-services based architecture (RabbitMQ, federation, AMQP protocol, docker, distributed systems)
- Implemented a POC to integrate ELK Stack to an existing appliance framework for real time log aggregation, analysis and querying (Elasticsearch, Logstash, Kibana)

Wingify, New Delhi: *Software Engg. Intern, VWO Team* June, 2016 - August, 2016

- Integration of StatsD and Graphite for visualization of real time data consumption from RabbitMQ Work queues by an internal service on an array of production servers.
- **Bumblebee:** Custom Slack Bot for VWO Enterprise customers to get all campaign information, start/stop/pause, share campaigns etc. for their account right from their slack channel.
- Improved performance by **23.6%** for an internal *flask* powered REST API used for report generation by the VWO app. Did so by refactoring existing codebase and implementing different algorithmic approaches.

OPEN SOURCE **Google Summer of Code:** *oVirt Org under RedHat* Summer 2017

- Responsible for writing new Ansible playbooks for roles with remote resources (Database, Data Warehouse) and other oVirt-utilities which would directly help in *Easier testing, Automated Re-deployment and Reduced errors while deploying, Issue reporting et al.*

EDUCATION **B.Tech in Information Technology, SRM University, India** 2013 - 2017

- CGPA of **9.133/10**

TECHNICAL SKILLS **Strongest Areas** - Linux, Backend, DevOps
Languages - Python, Go, C/C++, Java, Shell Script
Tools/Frameworks - Ansible, Django, Flask, NLTK, Docker, Redis, RabbitMQ, Git, LAMP Stack, AWS, DigitalOcean, Heroku, SQLite, Travis-CI

NOTEWORTHY PROJECTS **All projects are available on Github** : github.com/tasdikrahman

- **SRM Search Engine:** *Senior DevOps & Backend developer*
A General Purpose Search Engine, funded by **“National Internet Exchange of India”**. Oversaw migration to *Flask* based app from a legacy CGI service. Helped write RESTful APIs for various smart modules for our search service. Wrote scripts to automate the maintenance of our server. Crawlers to extract & index millions of pages, using NLP techniques to clear irrelevant data. Helped design & set up a 15 node, master-slave architecture Hadoop cluster.
- **Plino:** *Founder & Backend developer* plino.herokuapp.com/
Conceived plino, a high accuracy spam filtering system built on top of a custom *Naive Bayes Classifier*, trained against 33,000 emails. Designed & developed RESTful APIs using Flask. Implemented Caching for server load reduction. **Achieved over 3000+** users in our 1st version.
- **spammy** github.com/tasdikrahman/spammy/
Custom Naive Bayes classifier installable as a *pip module*. Can be trained on your own dataset for classifying emails into spam/ham. **Accuracy achieved : 80% - 90%**. Classifier object

can be serialized for later use, to avoid repeating training process. Powers the web app, “Plino”.
Downloaded over 1000+ times.

- **easyrbac** github.com/tasdikrahman/easyrbac/
A *pip* module, which allows you add *Role Based Access Control* to your application using which you can include fine grained rules specifying which role has access to what kind of resources. An implementation of Prof. Sandhu’s [paper](#)
- **Space Shooter** github.com/tasdikrahman/spaceShooter/
A Pygame based classic 2D shooting game recreated in Python. Features include collision detection algorithms for sprites, high FPS flicker-free 2D animations, hot keys and space simulation. **Cross platform Executables** available for *Linux/BSD, Windows, MAC OS* based systems.
- **tnote** github.com/tasdikrahman/tnote/
A cross platform, command line note taking app built using python. Ability to add/remove tags & timestamp in notes. Supports Full text search based on content and tags & highlights the match if found. Encrypted the Database using AES-256 in CBC mode. Peewee used as ORM.

ACHIEVEMENTS & AWARDS

- Special mention among the winners for our project at the annual Engineering Hackathon at CISCO competing among 24 teams.
- **SRM Search Engine** got covered thrice in *Times Of India*, a leading newspaper & by the TV Channel, *Vasanth TV*.
- **Space Shooter** got featured by *Softpedia*, *importpython*, *Python Digest*, *Pychina.org*, *dighub.ru*, *oschina.net*, *mybridge.co*, *recordnotfound.com*, *neuropuff.com* & **Product Hunt** in **games** genre.
- **Plino** got featured on **Product Hunt** in **tech** genre.
- **vocabulary** got featured by *Pycoders*, *Python Weekly* & *Import Python*.
- **tnote** got featured by *Import Python* & *Python Weekly*.
- **spammy** got featured by *Import Python* & the hugely popular “awesome-machine-learning” on Github, under Natural Language Processing tools.
- **Senior Member** of the College Coding Club, Code Rumble.
- **Silver Member** of SRM Innovation and Incubation Club.

TECHNICAL TALKS GIVEN

- “**Diving deep on how imports work in Python**”, PyCon Taiwan June 2017
- “**Introduction to Ansible**”, Bangalore Python User group April’17 Meetup
- “**Demystifying how imports work in Python**”, ChennaiPy October’16 Meetup

HACKATHONS

- Team Leader for the Intern group during the Annual Internal Engg. Team hackathon at CISCO.
- Team Leader for a group of 5 at “**Startup Weekend, Chennai**” (2015)

MORE

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