Tasdik Rahman

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WORK EXPERIENCE

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

ONGC, Mumbai: *Summer Engg. Trainee* May, 2015 - June, 2015
Worked along with the IT team to design and build a web app for "Offshore Maintenance Group" now being used by their internal employees, running on their intranet.

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, 4th year 2013 - 2017
SRM University, KTR Campus, India
- CGPA of **9.071/10** (**Till 7th semester**)

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 : https://github.com/prodicus

- **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 API's 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* https://plino.heroku.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** https://github.com/prodicus/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.**

- **vocabulary** https://github.com/prodicus/vocabulary/
  A *pip module*, which returns meanings, synonyms, antonyms, usage examples, part of speech, hyphenation, pronunciation for a given word. Inspired by WordNet, but comes with a universal JSON API. **Downloaded over 1700+ times.**
  zipcode and country code in JSON format. **Downloaded over 4500+ times.**

- **Space Shooter** https://github.com/prodicus/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** https://github.com/prodicus/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

- **"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

- Linkedin https://www.linkedin.com/in/tasdikrahman/