Tasdik Rahman

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EDUCATION

B.Tech in Information Technology, 4th year 2013 - 2017
SRM University, KTR Campus, India
- CGPA of **9.161/10** (**Till 6th semester**)

WORK EXPERIENCE

Wingify, New Delhi: *Software Engineering 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.

coala-analyzer.org: *Open Source Community Member* Jan, 2016 - Present
One of the early members of the now 104 core developers worldwide in the coala community. Wrote bug fixes, documentation and guiding the new comers to the community.

ONGC, Mumbai: *Summer Engineering 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.

TECHNICAL SKILLS

Strongest Areas - Linux, Databases
Languages - Python, C++/C, Java, Go, Shell Script, PHP, JavaScript
Tools/Frameworks - Django, Flask, NLTK, Docker, Redis, RabbitMQ, Tesseract-OCR, Make, Git, LAMP Stack, Peewee, Heroku, MySQL, SQLite, PostgreSQL, Travis-CI, Unit-testing

NOTEWORTHY PROJECTS

All projects are available on Github : https://github.com/prodicus

- **SRM Search Engine**: *Senior Backend developer* http://srmsearchengine.in/
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 archulechture 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.**

- **pyzipcode-cli** https://github.com/prodicus/pyzipcode-cli/
  A python GIS module for extracting latitude, longitude, county and state data using just the 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.
- **foodoh** https://github.com/foodoh/
  Building a food recommendation system during "Startup Weekend 2015". Extracted menu items from menu images using tesseract-OCR. Wrote scripts to scrape reviews, menu images and ratings of 3300+ hotels in Bangalore. *Work in progress.*

OPEN SOURCE
- **DuckDuckGo**: Built instant answer modules which have been deployed to production.
- **Coala-analyzer**: Improved documentation, wrote tests & helped new comers to our community.
- **Gitsound**: Refactored the codebase to make the application platform independent.
- **cookiecutter**: Various Bug fixes.
- **WiproOpenSourcePractice/openbdre**: Improved Documentation.

ACHIEVEMENTS & AWARDS
- **SRM Search Engine** got covered thrice in ***Times Of India***, a leading newspaper & by the TV Channel, ***Vasanth TV***.
- **Space Shooter** got featured by *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 Sysadmin & backend developer** for the Govt. funded project, SRM Search Engine.
- **Senior Member** of the College Coding Club, Code Rumble.
- **Silver Member** of SRM Innovation and Incubation Club.

WORKSHOPS & CONFERENCES
- Team leader for the hackathon, **"Startup Weekend 2015"** - Chennai.
- Attended SciPy India 2015, held at **IIT Bombay**.
- Attended PyCon India 2014, 2015 held at Bangalore. Regular attendee of ChennaiPy
- Attended Buildroid Android Workshop, held by the Google Developers Club - Chennai.

EXTRA - CURRICULAR
- As a volunteer for "The Green Nest", a non profit NGO. I dedicated my Sundays going to various orphanages in Chennai area and helped the children learn their school study material.

MORE
- Technical Blog http://tasdikrahman.me/
- Postal address 502-C Block, SRM Hostels, SRM University, Katthankulathur, TN, India.