

# Tasdik Rahman

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EDUCATION	<b>B.Tech in Information Technology, 3<sup>rd</sup> year</b> <b>SRM University, KTR Campus, India</b> <ul style="list-style-type: none"><li>CGPA of <b>9.24</b>/10 (Till 5<sup>th</sup> semester)</li></ul> <b>High School</b> - KV ONGC Panvel, Navi-Mumbai (CBSE) - 60.4% <b>Secondary School</b> - KV ONGC Panvel, Navi-Mumbai - 9.2 CGPA	2013 - 2017  2011 - 2013 2004 - 2011
EXPERIENCE	<b>ONGC, Mumbai:</b> <i>Summer Engineering Trainee</i> 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.  <b>coala-analyzer.org:</b> <i>Remote Developer</i> One of the early members of the now <b>104 core developers worldwide</b> in the coala community. Wrote bug fixes, documentation and guiding the new comers to the community.	May, 2015 - June, 2015  Jan, 2016 - Present
TECHNICAL SKILLS	<b>Strongest Areas</b> - Linux, Databases <b>Languages</b> - Python, C++/C, Java, Shell Script, PHP, JavaScript <b>Tools/Frameworks</b> - Flask, NLTK, tkinter, Peewee, Tesseract-OCR, Apache2, Gunicorn, Git, LAMP Stack, Peewee, Heroku, make, MySQL, SQLite, L <sup>A</sup> T <sub>E</sub> X, Travis-CI, Unit-testing	
SELECTED PROJECTS	All projects available on Github : <a href="https://github.com/prodicus">https://github.com/prodicus</a> <ul style="list-style-type: none"><li>• <b>SRM Search Engine</b> : <i>Senior Devops and Backend developer</i> <a href="http://srmsearchengine.in/">http://srmsearchengine.in/</a> A General Purpose Search, funded by the “<b>National Internet Exchange of India</b>”. Helped design &amp; set up a 15 node, master-slave architecture Hadoop cluster. Configured “<i>mmonit</i>”, for monitoring system processes. Wrote scripts to automate the maintenance of our server and to crawl, extract &amp; index millions of pages, using NLP techniques to clear irrelevant data.</li><li>• <b>Plino</b> : <i>Founder and Backend developer</i> <a href="https://plino.herokuapp.com/">https://plino.herokuapp.com/</a> Conceived plino, a high accuracy spam filtering system built on top of a custom <i>Naive Bayes Classifier</i>, trained against 33,000 emails. Designed &amp; developed RESTful APIs using Flask. Implemented Caching for server load reduction. Achieved over 3000+ users in our 1<sup>st</sup> version.</li><li>• <b>spammy</b> <a href="https://github.com/prodicus/spammy/">https://github.com/prodicus/spammy/</a> Custom Naive Bayes classifier installable as a <i>pip module</i>. Can be trained on your own dataset for classifying emails into spam/ham. <b>Accuracy achieved:</b> 80% - 90%. Classifier object can be serialized for later use, to avoid repeating training process. Powers the web app, “<b>Plino</b>”. Downloaded over 1000+ times.</li><li>• <b>vocabulary</b> <a href="https://github.com/prodicus/vocabulary/">https://github.com/prodicus/vocabulary/</a> A <i>pip module</i>, which returns meanings, synonyms, antonyms, usage examples, part of speech, hyphenation, pronunciation for a given word. Inspired by <b>WordNet</b>, but comes with a universal JSON API. Downloaded over 1700+ times.</li><li>• <b>Space Shooter</b> <a href="https://github.com/prodicus/spaceShooter/">https://github.com/prodicus/spaceShooter/</a> 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 <i>Linux/BSD</i>, <i>Windows</i>, <i>MAC OS</i> based systems.</li><li>• <b>pyzipcode-cli</b> <a href="https://github.com/prodicus/pyzipcode-cli/">https://github.com/prodicus/pyzipcode-cli/</a> 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.</li></ul>	

- **MovieReviewsAnalysis** <https://github.com/prodicus/movieReviewsAnalysis/>  
Built a recommendation system which classifies Movies as Good/Bad by analyzing their reviews. Incorporated various Machine Learning algorithms using *scikit-learn* and *NLTK*. Built a voting system, combining the algorithms to select best option to achieve higher accuracy.
- **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** covered thrice in *Times Of India*, a leading newspaper & by *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.
- Attended [Buildroid Android Workshop](#), held by the Google Developers Club - Chennai.

#### EXTRA - CURRICULAR

- Volunteer for “[The Green Nest](#)”, a non profit NGO. Being a part of which I dedicated my Sundays going to various orphanages in Chennai area and helping children learn their study material and beyond that.

#### MORE

You can visit <http://tasdikrahman.me/> for more.