

Swati Jaiswal

<http://swatij.me>

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INTERESTS

- Algorithms & Data Structures, Computational Cognitive Science, Web Development, Automation.

INTERNSHIPS

Software Developer Intern **OpenShift Origin, Red Hat(Outreachy)** May 2016 - Aug 2016

- Contributed to a framework (FTL [1]) for installing OpenShift (built using Ansible python API & Python) as a wrapper over the current Ansible based installer, wrote tests (using pytest) & CLI (using argparse).
- Deployed an OpenShift cluster with a master & a node containing an internal Docker registry & a router along with a sample rails application on the cluster with a PostgreSQL & a front end service while creating a Docker image for the same & finally documented [2] the whole process as well.

Hacker Intern **DoSelect** Jan 2017 - Mar 2017

- Developed a webcam proctor for recruiting tests using openface, dlib and Google Vision API.
- Wrote API for Doselect's programmer forum (using Tastypie), where hackers can ask programming questions and can answer the question asked by other users and showcase their skills.
- Built the test creation wizard(using Elastic Search API and django-haystack) for companies using Doselect to reduce their efforts for creating a recruiting test.

Backend Developer **HashGrowth.com** Feb-May 2016, Sept-Dec 2016

- Google Play Developer Console login & report fetching using python-requests, BeautifulSoup & Falcon, integration with HashGrowth using Django & PostgreSQL.
- Authentication (using django-allauth), Teams (using django-organizations) & on-board backend, scheduling & automation (using django-celery), deployments (using Nginx & upstart) also automated the process (using Ansible).

OPEN SOURCE PROJECTS

- **Sjdownloader** (2014): Cross platform open source desktop app for downloading (built with Python & wxpython)^[3].
- **Py-google-auth** (2016): Headless implementation of Google web login (with support for 2-Step Verification) in Python^[4] (built using requests, BeautifulSoup & Falcon).
- **Cryptanalyzer** (2016): A web application for analysis of encryption algorithms^[5] (built using Django, pycrypto, blowfish & nvd3).
- **CPython** (2015): Got two patches merged: #25913^[8], #25822^[9].
- Python Express (active): contributor for PSSI sponsored open source platform for conducting & managing Python workshops; with over 50 merged commits^[6].
- **Openbudgets.in** (active): contributor for CBGA driven open data portal for budgets in India^[7].
- **IIPS mobile app** (2015): Hybrid mobile app for college (built using Ionic, Express.js, PostgreSQL & Sequelize).
- **Drop to slack** (2016): Web app for dropping messages to slack channels from a web browser (built using Flask, web hooks).

ONLINE COURSES

- **Algorithms: Design and Analysis - Part I** (Stanford University, Coursera) **100%**
- **NAND to Tetris - Part I** (Hebrew University, Coursera) **100%**(Verified Certificate)
- **Computer Science 101** (Stanford Online) **100%**(Verified Certificate)
- **CS101: Introduction to Computer Science** (Udacity)
- **Programming foundations with Python** (Udacity)
- **Web Development** (Udacity)

EDUCATION

Devi Ahilya University July 2012 - Dec 2017

- Master of Technology (MTech, IT) **CGPA: 8.59/10**

SKILLS

- **Programming** : Python, HTML, C, JavaScript, CSS, Ansible, Bash, Java.
- **Frameworks** : Django, Falcon (Rest APIs), Bootstrap, Flask, Tastypie, AngularJS, Express.js, Ionic.
- **Database/ORM** : PostgreSQL, MySQL, Django ORM, Sequelize.
- **Cloud/hosting**: AWS (ec2, beanstalk), OpenShift, Docker, Vagrant & VirtualBox.
- **Servers** : Nginx, Apache, Unicorn.
- **OS/VCS** : *nix (Ubuntu, CentOS), git, hg.

WORKSHOPS/TALKS

- Talk on *How to get started with open source* for women & underrepresented groups in tech in PyCon India (2016).
- *Python 101* at Vivekanad Institute of Technology(VKIT), Bangalore, India (March 2017).
- Workshop at Acropolis Institute of Technology and Research on *Web Development using Python* (April 2016).
- Workshop at Diaspark Inc. on the topic of *Automation using Python* (September 2014).

[1] <https://github.com/ftl-toolbox/ftl-installer>

[2] <http://swatij.me/outreachy/getting-started-with-openshift-v3>

[3] <https://github.com/curioswati/sjdownloader>

[4] <https://github.com/Hashgrowth/py-google-auth>

[5] <http://cryptanalyzer.swatij.me/>

[6] <https://github.com/pythonindia/bye/commits?author=curioswati>

[7] https://github.com/cbgaindia/ckanext-openbudgetsin_theme

[8] <https://hg.python.org/cpython/rev/ce5bf3290621>

[9] <https://hg.python.org/cpython/rev/7bfc8b75ad9>