

# Swati Jaiswal

<http://swatij.me>

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## INTERESTS

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

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## EXPERIENCE

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|---|---|-----------------------------|
| <b>Junior Python Developer</b>  | <b>Scrapinghub (Remote)</b>                 | July 2017 - July 2018       |
| <ul style="list-style-type: none"><li>• Developed Web Scraping solutions for our clients while tackling anti bot systems, javascripts and APIs. Also followed the best and polite web scraping practices to not harm the hosts.</li></ul>   |   |                             |
| <b>Hacker Intern</b>  | <b>DoSelect</b>                             | Jan 2017 - Mar 2017         |
| <ul style="list-style-type: none"><li>• Developed a webcam proctor for recruiting tests using openface, dlib and Google Vision API.</li><li>• 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.</li><li>• 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.</li></ul> |   |                             |
| <b>Software Developer Intern</b>  | <b>OpenShift Origin, Red Hat(Outreachy)</b> | May 2016 - Aug 2016         |
| <ul style="list-style-type: none"><li>• Deployed an OpenShift cluster with a master &amp; a node containing an internal Docker registry &amp; a router along with a sample rails application on the cluster with a PostgreSQL &amp; a front end service while creating a Docker image for the same &amp; finally documented [1] the whole process as well.</li></ul>  |   |                             |
| <b>Backend Developer</b>  | <b>HashGrowth.com</b>                       | Feb-May 2016, Sept-Dec 2016 |
| <ul style="list-style-type: none"><li>• Google Play Developer Console login &amp; report fetching using python-requests, BeautifulSoup &amp; Falcon, integration with HashGrowth using Django &amp; PostgreSQL.</li><li>• Authentication (using django-allauth), Teams (using django-organizations) &amp; on-board backend, scheduling &amp; automation (using django-celery), deployments (using Nginx &amp; upstart) also automated the process (using Ansible).</li></ul>  |   |                             |

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## EDUCATION

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|---|----------------------|
| <b>Devi Ahilya University</b>   | July 2012 - Dec 2017 |
| <ul style="list-style-type: none"><li>• Master of Technology (MTech, IT) <b>CGPA: 8.59/10</b></li></ul> |                      |

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## OPEN SOURCE PROJECTS

- **Sjdownloader** (2014): Cross platform open source desktop app for downloading (built with Python & wxpython)<sup>[2]</sup>.
- **Py-google-auth** (2016): Headless implementation of Google web login (with support for 2-Step Verification) in Python <sup>[3]</sup> (built using requests, BeautifulSoup & Falcon).
- **Cryptanalyzer** (2016): A web application for analysis of encryption algorithms <sup>[4]</sup> (built using Django, pycrypto, blowfish & nvd3).
- **CPython** (2015): Got two patches merged: #25913 <sup>[7]</sup>, #25822 <sup>[8]</sup>.
- **Python Express** (2015-16): contributed to PSSI sponsored open source platform for conducting & managing Python workshops; with over 50 merged commits <sup>[5]</sup>.
- **Openbudgets.in** (2016): contributor for CBGA driven open data portal for budgets in India <sup>[6]</sup>.
- **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).

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## ONLINE COURSES

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

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## SKILLS

- **Programming** : Python, HTML, C, JavaScript, CSS, Ansible, Bash.
- **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.
- **Web Scraping** : Scrapy, BeautifulSoup, Requests, Antibots.

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## 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).
- Workshop for Rural Students on Elementry Computer Education (2014).

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

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

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

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

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

[6] <https://github.com/cbgaIndia/ckanext-openbudgetsin.theme>

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

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