

# SWATI JAISWAL

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## EXPERIENCE

### Senior Software Engineer | Backend

Signeasy

May 2021 - Present

Bengaluru, India

- Platform Engineer | gin-gonic, MySQL, redis, Django, Flask, Docker, AWS SNS, SQS
  - Identified and addressed key bottlenecks in the system, resulting in nearly **~2x performance**. This involved re designing and implementing two core micro services using **Clean Architecture** along with DB schema refactor, which laid the foundation for future scalability. Throughout this large-scale project, I seamlessly collaborated with the entire team to ensure a smooth transition.
  - Migrated an existing micro service from legacy version which made it easily maintainable.
- Integrations Engineer | Oauth2 SDKs, MS-Graph, AWS Lambda, SNS, Apache Airflow
  - Built capability to archive files in user's SharePoint drive after signing in the system. This has been one of the selling point for our SharePoint integration.
  - Implemented data transformation pipelines to improve usage metrics accessibility for the marketing team hence boosting their efficiency.

### Civic Tech Engineer | Full Stack

CivicDataLab

Oct 2018 - July 2020

Remote, India

- Full Stack Engineer | CKAN, Python, Javascript, Bootstrap
  - JusticeHub: An open data platform for legal data sharing with ~10 data contributors from various legal institutions across India.
- Data Engineer | Scrapy, Apache Airflow, Pandas, Apache Superset
  - Wrote a scalable ETL pipeline to scrape case law data from eCourts across **~300 district courts** in India with **~1L cases** and for Himachal Pradesh Fiscal Data Explorer's **80k+ records** both updated on a daily basis.
  - Co-developed **Analytical Dashboards** for legal data related to Child Sexual Abuse in India.
- Hiring, onboarding new team members, forming policies, preparing project proposals, interacting with partner organisations, writing blog posts etc.

### Junior Python Developer

Scrapinghub

Jul 2017 - Jul 2018

Remote, Europe

- Developed Web Scraping solutions for our clients while tackling **anti bot systems** like Incapsula, Captcha, APIs, javascripts etc. **Scrapy**

### Hacker Intern | Backend

Doselect

Jan 2017 - Mar 2017

Bengaluru, India

- Developed a webcam proctor for recruiting tests. **openface** | **dlib** | **Google Vision API**
- Wrote API for Doselect's programmer QA forum. **Tastypie**
- Built the test creation wizard for client companies' programming tests. **ElasticSearch API** | **django-haystack**

## WORKSHOPS/TALKS

- Talk on "**Fantastic Indian Open datasets & where to find them**" in **ODSC India (2019)**.
- 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).

## MOST PROUD OF



### Ownership

for a large scale re architecture project.



### Dedication

for creating a shared open data platform for legal data in India.



### Persistence

to make it to the **Outreachy May-Aug 2016** round.

## SKILLS

### Programming

Python, HTML, CSS, Bash, JavaScript, SQL, Golang.

### Web/Mobile Dev

Web Application Architecture, Microservices Architecture, Server Setup, Automation • Django, CKAN, Bootstrap, Flask, Gin, Tastypie, Nginx, Unicorn, Ansible, Apache Airflow, RDBMS, Sequelize, gorm, web hooks, Docker.

### Data

Scraping, Parsing, Munging, Pipelining, Modeling, EDA, Basic Visualization • Requests, Scrapy, BeautifulSoup, Sqlite, Pandas, Apache Superset, Altair.

## EDUCATION

### M.Tech in Information Technology

Devi Ahilya University

Jul 2012 - Dec 2017

## OPEN SOURCE CONTRIBUTIONS

- CPython(2015): Got two patches merged: #25913, #25822.
- Python Express(2015-16): contributed to **PSSI sponsored** open source platform for conducting & managing Python workshops; with **over 50 merged commits**.
- Openbudgets.in(2016): contributor for **CBGA driven** open data portal for **analysing budgets in India**.
- Staticman

## OPEN SOURCE PROJECTS

- Sjdownloader(2014): Cross platform desktop based downloader **wxpython**
- Py-google-auth(2016): Headless implementation of Google web login (with 2FA). **python-requests** | **BeautifulSoup** | **Falcon**
- Cryptanalyzer(2016): A web application for comparing encryption algorithms' performance. **Django** | **pycrypto** | **python-blowfish** | **nvd3**
- IIPS mobile app(2015): Hybrid mobile app for college. **ionic** | **Express.js** | **PostgreSQL** | **Sequelize**

## PUBLICATIONS

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### Conference Proceedings

- Prajapat S., Porwal A., Jaiswal S., Saifee F., Thakur R.S. (2018) **Generalized Parametric Model for AVK-Based Cryptosystem**. In: Perez G., Mishra K., Tiwari S., Trivedi M. (eds) Networking Communication and Data Knowledge Engineering. **Lecture Notes on Data Engineering and Communications Technologies**, vol 4. Springer, Singapore. [https://doi.org/10.1007/978-981-10-4600-1\\_20](https://doi.org/10.1007/978-981-10-4600-1_20)