Ayush Dwivedi

https://www.aydwi.com   contact@aydwi.com

EDUCATION
VIT University, TN, India

Bachelor of Technology, Computer Science   **Jun 2015 – Jun 2019**

Recipient of Scholarship for Academic Excellence in Computer Engineering three years in a row.

PROFESSIONAL
EXPERIENCE
Nutanix Inc., KA, India

Systems Reliability Engineer   **Jan 2019 – present**

I administer, debug and develop tooling for the Nutanix software stack for on-premise and cloud based infrastructure deployments. Involves working with Linux servers, KVM based hypervisors, network based storage and file-systems, and open source tools like Apache Cassandra and Zookeeper.

- **Nutanix Cluster Check**: Led the development and co-authored a Python based plugin to determine if Nutanix software is deployed optimally, effectively automating the existing process.
  Used by Nutanix administrators and engineers worldwide, saving them several hundred hours of manual analysis every month.

- **Aeon Downloader**: Authored a tool to automatically download and organize educational resources for Nutanix engineers.
  Made retrieval and consumption of information much easier for the entire team, saving them hours of unnecessary effort.

OPEN SOURCE
WORK
AND PROJECTS
Freedom of the Press Foundation, Remote, based in CA, USA

Open Source Developer, Community Member   **Feb 2018 – Jun 2018**

I worked on SecureDrop - an open source whistleblower submission system, managed by Freedom of the Press Foundation.

- **SecureDrop Web App**: Performed server-side optimization of image upload system for the Flask based web application. Resulted in more robust server code and faster experience for end users. Fixed multiple open bugs in the process. [**Link**]

- **SD-Helper**: Authored an automated system to schedule and manage messages on Gitter based developer communication channel. Deployed it on the securedrop cloud infrastructure using Docker. [**Link**]

- **Reproducible Builds**: Analyzed the need of building SecureDrop binaries reproducibly, and the build system required for the same. Gained familiarity with Debian software packaging in the process.

tldr PDF

A flexible PDF rendering tool for popular open source project 'tldr Pages'. Written in Python without any complicated external dependencies. [**Link**]

chaos

'chaos' is a proof-of-concept pastejacking tool for GNU/Linux, which modifies text copied to the operating system clipboard. Written as a Python daemon. [**Link**]

PROGRAMMING
EXPERIENCE
Languages: Python (Advanced), C++, JavaScript, Bash
Technologies: Docker, Cassandra, SaltStack (Beginner), Qemu, Open vSwitch