

# Parth Dode

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d80ep08th 

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Airoli, Navi Mumbai, MH

Python . Bash . Linux . C . C++ . Docker . Javascript . Make . MySQL

Examination	University	Institute	Graduation Year	CGPI / %
Graduate	Mumbai University	DMCE, Airoli	2020	6.56
Intermediate	HSC	IDUBS Jr. College, Bhandup	2016	73.69%
Matriculation	CBSE	DAV Public School, Airoli	2014	92.2 %

## WORK EXPERIENCE

### Open Source Engineer at [Resurface Labs](#)

Feb. 2021 – July 2021

- Worked as an Independent Contractor for the very first time.
- Paid to make contributions to the resurface labs github repository .
- Observed the fast paced environment of an early stage startup and the level of communication required to get things done.
- Collaborated with peer hackers in discussions around performance, user experience, security and other constraints when designing test-apps and logger.
- Dockerized multiple web apps that were used to represent the logging functionality of Resurface to clients.
- Automated Docker commands for multiple web apps using Makefile.
- Communicated problems using Slack.
- Implemented Jupyter-notebook for the working of APIs in the following frameworks:
  - Aiohttp, Flask, Django, Rails, Sinatra, Express, Apollo, Koa.
  - Mysql and Trino database to query the webapps of the aforementioned frameworks.
- Operated during the entire time period on a ubuntu machine .

### [Google Summer of Code 2020 Participant with The Linux Foundation](#)

May 2020 – Aug. 2020

- Developed code using C, Cmake, Kbuild, Python and Bash
- Ported the jailhouse virtualization module by Siemens.
- Customized images of Automotive Grade Linux (AGL) Operating System.
- Tracked issues and development using Jira -Atlassian .
- Presented weekly progress to Linux Kernel Hackers from all over the world in the Virtualization expert group of AGL.
- Developed recipes using the Yocto Project.
- Communicated problems using irc.
- Debugged the errors using gdb and screen.
- Operated Docker, Qemu, Jailhouse and KVM hypervisor to test the customizations.
- Operated RaspberryPi4 to test the customizations .
- Communicated readings from one Raspberry-pi4 to another, using CAN boards.
- Operated on a remote machine provided by The Linux Foundation mentor using only Shell.
- Documented the project as a website: <https://d80ep08th.github.io/Port-Jailhouse-to-AGL/>
- Merged my code using Gerrit in the main repository of the Automotive Grade Linux.
  - <https://gerrit.automotivelinux.org/gerrit/c/AGL/meta-agl-devel/+25149>
  - <https://gerrit.automotivelinux.org/gerrit/c/AGL/meta-agl-devel/+25162>

## Backend Engineering Intern at [AGS Transact Technologies](#)

Dec. 2019 – Jan. 2020

- Unpaid internship
- Developed a website using ASP.NET mvc
- Used .NET core cli
- Integrated website with sqlite
- Created Register and Login forms
- Wrote code to check that the username is not already registered
- Wrote code to check that the password is at least 8digits, has numbers, alphabets and special characters.
- Created database and table in sql to store the registered users

## LEADERSHIP & AWARDS

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- The Linux Foundation Training Certified LFD103: A Beginner's Guide to Linux Kernel Development
- Django and flask workshop as an initiative to teach the students of my college how to apply python to build websites in my college lab
  - Guided a team of 3 juniors who helped the attendees while I taught.
  - Used the platform to talk about open source development of Django and flask.

## PERSONAL PROJECTS

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- **Operating System for Two-Wheelers as Final year project**
- **Sentiment Analysis ( VADER NLP ).**
- **Google Assistant Home Automation system**
- **Detecting Pneumonia from Lungs X-ray .**

## SKILLS

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**Frameworks & Libraries:** Django, Flask, Aiohttp, Express, Apollo, Koa , Laravel, Tensorflow, Pytorch, Pandas, Numpy, Vader NLP, Npm , Pytest

**Tools :** Shell [Bash, Zsh] . IRC . Atlassian Jira . Github. Gerrit . Raspberry pi . make. Makefiles Arduino . Qemu . Wireshark . Burp Suite . Nmap . Owasp ZAP . Vim . Midnight Commander . PGP . Jupyter Notebooks