

Shivashis Padhi

SOFTWARE DEVELOPER

Bangalore, India

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Work Experience

Mattermost

Remote

SOFTWARE DEVELOPMENT ENGINEER - II

April 2022 - February 2023

- Worked in the Suite Users team which handles users' authentication, authorization, and permissions in Mattermost's Suite Products.
- Developed back-end for workspace insights which summarizes trending elements in the product.
- Improved security of OpenID authentication flow, increased compliance to specs.
- Worked on a proof-of-concept for Mattermost to support multiple authentication services of the same type, simultaneously.
- Most of my work is Open Source and can be found in [mattermost-server](#).

AiDash

Bangalore, India

SOFTWARE ENGINEER

July 2021 - March 2022

- Updated internal STAC service to first stable(1.x.x) version.
- Built a proof of concept dynamic map tile server with titiler which uses COG formatted geotiffs across internal S3 storage.
- Worked on engineering data pipelines used to derive tree statistics from satellite imagery and DSMs.

Grofers

Bangalore, India

SOFTWARE DEVELOPMENT ENGINEER

Jan. 2020 - June 2021

- Worked on Geospatial Data Management tools, extended kepler.gl's visualization tools to handle editing of geometries, and textual metadata.
- Development of internal docker-stacks for deployments of Airflow, JupyterHub. Generic CI/CD pipeline were setup for automated release of python dependencies as well.
- Monitor and maintain ETL jobs, source replication pipelines.

Mission Support System, GSoC'19

Remote

STUDENT SOFTWARE DEVELOPER

May 2019 - August 2019

- Worked on an atmospheric research flight planning software maintained by researchers at Forschungszentrum Jülich, participating in Google Summer of Code under Python Software Foundation. [link to final submission](#)
- Contributed key features to **MSS** i.e. developing collaboration platform for mss(mscolab), refactoring the Web Map Server from Paste to Flask.

Flytbase Inc.

Pune, India

SOFTWARE ENGINEER INTERN

May 2018 - July 2018

- Designed, developed, and successfully deployed a Python module to interact with Flytbase Cloud APIs, to be used for centralized swarm interaction, connecting user to multiple drones and exchange data optionally in an asynchronous manner.
- Engineered a multi-client video conferencing platform with three different permission levels for desktop and Raspberry PI platforms using core concepts of WebRTC and a high level Twilio Video API. Achieved **30fps real-time** video communication speed.

Education

National Institute of Technology, Tiruchirappalli

Tiruchirappalli, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

July 2016 - May 2020

- Graduated with GPA 7.56/10, and a minor in economics.
- Student member of the programming and astronomy club.
- Administered the MS/PhD admissions portal of the university during 2018-2020.

Projects

felicette

EARTH OBSERVATION TOOL - [LINK TO REPOSITORY](#)

July 2020 - Present

- Easy to use tool to download and process public earth imagery satellite data from the command line.
- With 1700+ stars on GitHub, it was trending #1 on HackerNews, and #3 on GitHub.

codecharacter-backend

Tiruchirappalli, India

AN ONLINE MULTI-PLAYER AI PROGRAMMING EVENT - [LINK TO REPOSITORY](#)

March 2017-March 2019

- Designed routes to deal with asynchronous compilation of codes and execution of matches, capped requests' count per user to prevent spamming. Event was hosted during Pragyana 2018 with over 1410 registrations and close to 12000 matches played within 24 days.
- Code-character'19 logged >650 players and 25000 games, I built the websocket module to handle real-time notifications and events. [Link to pull requests](#)

- Built the notifications module's back-end for the official app of my university. Topics created by admin can be subscribed by users to get push notifications assigned to those topics via Firebase Cloud Notification. Received 550+ downloads on Google Play.

Honors and speaking

HONORS

- | | | |
|----------|---|------------------|
| 2019 | Best Concept Award , Bounce Hack 1.0 - a mobility hackathon | Bangalore, India |
| 2017 | 1st place , Pragyan Hackathon | Bangalore, India |
| 2017, 18 | Finalist , InOut - one of the best student hackathons in India | Bangalore, India |
| 2018 | 2nd Position , Triathlon - a CS theory event organized by Vortex, NITT | Trichy, India |

SPEAKING

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|------|---|----------------|
| 2019 | PyCon India , Demystifying Web Map Servers | Chennai, India |
| 2020 | PyCon Japan, PyCon Australia , What happens behind execution of an import statement? | Remote |
| 2020 | GeoPython , End to end satellite data processing with Python | Remote |
| 2020 | PyCon APAC , Workshop on web map services | Remote |

Skills

Back-end	FastAPI, Flask, net/http - Golang, Express, REST API, websockets
Programming	Proficient: Python Intermediate: Golang Beginner: Node.js, C
Front-end	React, Redux, HTML5, CSS
DevOps	Docker, Kubernetes Basics, Jenkins.
Familiar Tech Specifications	OpenID, STAC, Cloud optimized GeoTIFF, WMTS