

Divyanshu Shekhar

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PROJECTS

Tyup : Let's Connect Students [Flutter, Dart, Java]

June 2021 – June 2022

- **Problem:** Lack of student connectivity in a college
- **Solution:** A one stop platform for students to connect and collaborate on a project.
- Lead a team to bring this idea to reality
- Integrated back-end with front-end
- 1K+ downloads with 200 active users per month

Recite : Text-to-speech app for web & PDF [Flutter, Dart, Java]

April 2021

- **Problem:** Lack of all in one text-to-speech app for web and PDF
- **Solution:** Built Recite, a text-to-speech app with multiple language and voice support.
- Uses Google TTS Engine for voice, language and accent support
- Uses NLP model for sentence detection
- 10K+ downloads with 2K+ active users per month

Workflow Reporter : GitHub App [Typescript, Probot, GitHub API]

January 2022

- **Problem:** Repetitive message for failed workflow jobs in GitHub action
- **Solution:** GitHub app to report failed workflow job actions and notify pull request creator with custom report message for the failed workflow job
- Used GitHub Actions & Pull Request API to automate the reporting
- Deployed on Heroku
- 50+ subscribed customers

OpenCV [Python, Numpy, Pandas, Matplotlib]

June 2020

- created object detection, motion detection, lane detection
- Built face recognition & face detection system using machine learning models

Flutter Shortcuts [Flutter, Dart, Java]

June 2021

- **Problem:** Plugin for creating static & dynamic app shortcuts on the home screen.
- **Solution:** Built an open-source flutter plugin for easy creation of static & dynamic app shortcuts.
- 80%+ popularity & 100+ likes on [@pub.dev](#).

DemonOS [Assembly, C, Makefile, Shell, Qemu]

July 2021

- Created an operating system from scratch
- Implemented IDT, GDT, PIC with A20 line enabled & switching real to protected mode
- Implemented basic input output using c language to write on terminal
- Used Makefile and Shell to compile and build the executable to iso file
- Used Qemu to run and debug the operating system

TECHNICAL SKILLS

Languages(Proficient): C/C++, Java, Python, Dart, JavaScript

Languages(Familiar): Golang, TypeScript, Solidity, Assembly, Shell

DB: SQL, MongoDB

Frameworks: Flutter, GTK+, React, Node.js, Angular

Developer Tools: AWS(EC2, SES, Route53), Docker, Postman, Qemu

ACHIEVEMENTS

- **Hult Prize 2022 On-Campus Winner**

EDUCATION

Kalinga Institute of Industrial Technology

Bhubaneswar, Odisha

Pre-final (Third) year, B.Tech in Computer science and engineering

September, 2020 – Expected June. 2024