

# ASWIN G

Kochi, India

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**Languages:** Python, Go, JavaScript, C++

**Technologies:** Django, Docker, Git, Linux, React

## EXPERIENCE

### Compile

#### SDE Intern

Bangalore, India / Remote

May 2020 - Jul 2020

- Created efficient processing pipelines to periodically download, clean, and convert data from large datasets to a format convenient to store in a database and query using SQL.
- Created an API to easily run bulk queries with a variety of filters against database contents.
- Created a webapp to act as a client for the aforementioned API.
- Configured CI/CD to autodeploy all of the above to the production server.
- Technologies Used: Python, Django, Pandas, Vue

### Zulip

#### Google Summer of Code Intern

Remote

May 2018 - Aug 2018

- Improved the user experience of the Zulip mobile app by increasing feature parity between mobile and web clients.
- Found and fixed several bugs and wrote unit tests.
- Updated UI to comply with material design guidelines.
- Returned to the organization as a mentor for Google Summer of Code 2019.
- Technologies used: JavaScript, React Native.

## EDUCATION

Govt. Model Engineering College, Kochi, Kerala

CGPA 8.86/10, 2017 – 2021 Batch

**B.Tech in Computer Science and Engineering**

## ACHIEVEMENTS

- **Google Summer of Code intern** at Zulip in 2018, **mentored** for Zulip in 2019.
- **Prize Winner for Algorithms** 2018 & 2019, the **competitive coding** event of college techfest.
- **GirlsScript Summer of Code Mentor** for OpenGenus foundation in 2019.
- **Finished in the top 1%** of students of Modern Application Development course conducted by IIT-M and Hasura in 2017
- **Winner of MEC-labs**, a project presentation competition, in 2018.
- **Winner of Creative Event** 2017, 2018 and 2019, a frontend development competition.

## PROJECTS

### Excel Play

- Rewrote parts of the backend in Go and updated the existing Django backend as we transitioned to a microservices based architecture.
- Ported the frontend of legacy web app from Angular to React JS leveraging modern features and following best practices.
- Used Docker to containerize the application and added CI to improve developer workflow and maintain code quality.
- Deployed the application to production and maintained it for the duration of college techfest.
- Technologies used: Go, Django, Docker, Nginx, React, Redis, GCP
- [github.com/Excel-MEC/excelplay-platform](https://github.com/Excel-MEC/excelplay-platform)

### Realtime Traffic Control System

- Created a system to automate control of signals at busy junctions.
- The system calculates green light and red light duration on the basis of vehicle density patterns for each lane separately.
- Proved using traffic simulations as being more efficient than existing methods.
- Technologies used: OpenCV, Python.
- [github.com/agzuniverse/Syndicate](https://github.com/agzuniverse/Syndicate)

### OpenSalve

- Created a disaster management and coordination app, inspired by the lack of such an app during the Kerala floods of mid-2018.
- Provided features to map and manage relief camps and collection centers.
- Optimized the application to not fail in adverse network conditions.
- Technologies used: Android, Django, Java.
- [github.com/agzuniverse/opensalve-android](https://github.com/agzuniverse/opensalve-android)

### MEC Books Watch

- A used textbook selling platform for college students.
- The web app included features such as user authentication, buy/sell books, search and sort according to various parameters.
- Technologies used: Firebase, Go, JavaScript, React, Redux.
- [github.com/agzuniverse/MecBooksWatch](https://github.com/agzuniverse/MecBooksWatch)

### SnapDiet

- Calorie tracking application with focus on Indian cuisine.
- Features include authentication, multiple device support, graphical representation of data etc.
- Technologies used: Firebase, React Native, Redux.
- [github.com/agzuniverse/SnapDiet](https://github.com/agzuniverse/SnapDiet).

## LEADERSHIP

- Chairman of FOSS club at Govt. Model Engineering college since Feb 2020.
- Organizing member of MEC-conf 19, a national level developer conference.