



Dhiman Seal

Developer | Freelancer | Open-Source Contributor

I aim to help come up with scalable solutions to problems, make people's lives easier with open-source contributions, and work with teams that build industry-changing technology.

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EDUCATION

B.Tech in Electronics and Communication Engineering (ECE)

National Institute of Technology (NIT), Silchar

07/2018 - 05/2022

CPI: 8.32/10

HS(Science), CBSE

Gurukul Grammar Senior Secondary School

05/2016 - 05/2018

Percentage: 95%

WORK EXPERIENCE

Cloud Engineer and Application Developer | Freelancer

Cashtic

05/2021 - Present

Budapest, Hungary | Remote

Cashtic is a medium-scale, cross-platform, peer-to-peer ATM cash network for Android and iOS with Firebase as the Backend.

Achievements/Tasks

- **Stabilized and improved** the code-base and project architecture.
- **Brainstormed and developed** server-less cloud function models with authentication, for secure database operations.
- **Encapsulated and integrated** various APIs with relevant Data Models and Unit Tests, to add new functionality.
- **Developed functionality and UI** of the Cross-Platform Application, with bug fixes and implemented REST-ful Cloud Calls, Google Map Integration, developing various UI elements, etc.
- **Localized/Internationalized** over 150 front-end and back-end elements successfully.

Website: <https://cashtic.com>

Cross-Platform, Full-Stack Development Freelance Work in over a dozen National and International Startups

01/2021 - Present

Remote

Worked as a freelancer on sites like Fiverr, Upwork etc for various teams.

Achievements/Tasks

- **Received 5-Star Reviews** from Every Single Client.
- **Proper communication** with clients to always keep them updated.
- **Always meeting deadlines** and delivering to the mark.

IoT Ideation and Development | Co-Founder Eminence Robotics

10/2018 - 09/2021

Guwahati, Assam

Eminence focused on product development, won in Robotics, Innovation events across the country, helped organize tech events, training in colleges.

Achievements/Tasks

- **Played a lead role** in organizing, executing ideas as co-founder.
- **Coded** out both IoT applications and micro-controller unit logic.
- **Educated students** during our workshops and training programs for college/HS students, as one of the lead instructors.

Website: <https://www.eminencerobotics.org/>

SKILLS

Flutter / Dart based Development

Python

C++

Javascript

Java

IoT with WiFi, BLE, RF communication

REST / GraphQL API Design, Usage

SQL / NoSQL Databases

Deep Learning Specialization

OpenCV

Machine Learning

Basic HTML + CSS

MATLAB

Google Cloud

Firebase

PERSONAL PROJECTS

open_route_service (Flutter | Dart | Library | Open Source | HTTP | API Integration | OOP) (09/2021 - Present)

- **An encapsulation made around openrouteservice API** for it's easy integration in Dart and Flutter projects, along with relevant data models and unit tests
- **Highly popular Open-Source package** on pub.dev with an **automated testing workflow** on Github: https://pub.dev/packages/open_route_service
- **Received commendation** and support from the openrouteservice team

SafeSync-IoT (ESP32/IoT | Server-Client Communication | BLE-Mesh RSSI | Cross-Platform Development) (11/2020 - 04/2021)

- **A Full-fledged Employee Management and contact-tracing-based Workspace safety solution:** <https://github.com/Dhi13man/SafeSyncIoT>
- **Implemented a Cross-Platform Dashboard** in Flutter, Client-Server IoT communication, and a self-sufficient, local, SQL based Database
- **Winner of National Innovation Challenges:** E-Hackathon by ASTEC, Startup Assam, 2021; Technex, 2021, and others

nordigen_integration (Flutter | Dart | Library | Open Source | HTTP | API Integration | OOP) (05/2021 - Present)

- **An Open-Source, null-safe, Dart/Flutter Package for easy Nordigen Bank API integration:** https://pub.dev/packages/nordigen_integration
- **With succinct documentation and concise unit-tests**, the package has relevant Data Models, encapsulation with exposing of parameters
- **Received commendation from Nordigen** (the European Banking Service) themselves, goodies, etc

Computer Vision: Gesture-based Control (ML | OpenCV | Python | KNN | Random Forest) (04/2020 - 05/2020)

- **Developed a python project to build a dataset and Image Processing + ML model to detect handshakes in real-time with Computer Vision**, to control the PC: <https://www.github.com/Dhi13man/CV-HandGestureControl>

NumCuts (C++ | Batch | HTML/CSS/JS | Electron + NodeJS based Windows GUI Application) (04/2020 - 04/2020)

- **Developed a GUI tool to set up custom shortcut keys to script tasks** built using C++, containing a HTML/CSS based GUI, built with NodeJS + Electron-JS: <https://github.com/Dhi13man/NumCuts/releases>

InfrAwake (IoT | ESP8266/NodeMCU | Server-Client WiFi Comms | Tx-Rx RF Comm | Google Apps Scripting) (10/2019 - 12/2019)

- **An IoT wearable technology that is a Drowsy Driving solution** with a Google Sheets scripting API based Database: <https://youtu.be/hqWcnQ520LQ>
- **Winner of National Innovation Challenges:** KIITFest, 2019; MeiTide NIT Silchar round, 2020, and others

VOLUNTEER EXPERIENCE

TechEngio (11/2018 - 03/2020)

We visited local institutions to conduct workshops and teach students various topics on electronics, robotics, software, other technical fields.