

# Sonu Sourav

Hostel Bhairavi, IIT Dharwad, Dharwad, Karnataka, India, 580011

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“Aut inveniam viam aut faciam”

## Education

### Indian Institute of Technology Dharwad (IIT Dharwad)

JUNIOR ELECTRICAL ENGINEERING UNDERGRAD

Dharwad, India

Expected 2021

## Work Experience

### Texopanda

ANDROID APP DEVELOPER LEAD

- Led a team of 5 developers to define and implement solutions in alignment with latest Android Material Guidelines
- Added back-end support with API integration to improve the customer experience and cut down on development time

Bangalore, India

July 2018 - Aug 2018

### TCS-IISc Bangalore

SOFTWARE DEVELOPMENT ENGINEER

- Created an Android solution for a Smart Wearable device to measure heartbeat and blood-pressure
- Developed an interface on top of the BP algorithm that uses PPG (Photoplethysmogram) and ECG (Electrocardiogram) signals
- Built and deployed overall service infrastructure utilizing Android BLE, TravisCI, and several Firebase stacks (Including Auth, Realtime Database, Storage, Crashlytics) focusing on high-availability, fault tolerance, and auto-scaling.

Bangalore, India

March 2018 - Jul 2018

### Youth Empowerment Foundation

ANDROID APP DEVELOPER

- Conceptualized, designed and developed an Android app from scratch maintaining all reports pertaining to application development process
- Implemented dynamic image sizing, bug fixing and improving application performance

Remote

April 2018 - May 2018

## Projects

### Kiwix-Android

MENTOR: SEÁN MAC GILLICUDDY

- Kiwix is an offline reader for online content like Wikipedia, Project Gutenberg, or TED Talks. It makes knowledge available to people with no or limited internet access.
- Migrated activities to use newer components such as constraint layouts and unified the style following Material Guidelines
- Improved the UI/UX of various features of the app including tabs, and navigation.

Bangalore

Dec 2017 - Present

### InstiGo

GUIDE: PROF. RAJSHEKAR K.

- InstiGo is an android app for the students and faculties of IIT Dharwad that provide a one stop solution for matters related to mess, academia and hostel.
- Developed the app from scratch using Node.js server which included features like Resource Portal, Hostel Complaints, Mess Menu & Feedback, etc.

IIT Dharwad, Dharwad

March 2019

### SmartWatch

GUIDE: PROF. PROF. AMARESH CHAKRABARTY

- Build an android app from scratch which uses BLE technology to pair with a smart device to measure blood pressure and heartbeat
- Developed an app interface on top of the BP algorithm that uses PPG (Photoplethysmogram) and ECG (Electrocardiogram) signals to decrease the complexity and increases the precision level of measurement

IISc Bangalore, Bangalore

March 2019

## Other Projects

### Idea Becho

PROJECT LINK

- Ideas Win Hackathons! Execution and prototypes win in the real world.
- A web app where developers can host their project built during hackathons to transform their idea into a technology driven innovation
- Opportunity for engineers to earn quick cash and for startups to quickly access prototypes for their initial investing rounds

In-Out 6.0 Hackathon, Bangalore

March 2019

## BuzzerIIT

GITHUB LINK

- Built a buzzer app for quiz competition held at IIT Dharwad

IIT Dharwad

Aug 2018

## Skills

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**Languages** Java, Kotlin, C, C++, HTML, Node.js, MySQL, Latex

**Platforms** Android Studio, Firebase, MongoDB, GCP, Git, Matlab, Octave, Postman

**Soft skills** Event Management, Entrepreneurship, Blogging, Leadership, Time Management

## Achievements

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Ongoing **MCM Scholar**, Scholarship given by IIT Dharwad to top 12% students

Dharwad, India

2019 **Gold Medal in Schlumberger Coding Hackathon**, Inter-IIT Tech Meet 8.0 organized by IIT Roorkee

Roorkee, India

2019 **Winner in App-etite Hackathon**, in Meraz 2019, IIT Bhilai's Annual Techno-Cultural Fest

Bhilai, Chattisgarh

2018 **Fourth Position**, Jio Developer Hackathon: Solve for Billion

Mumbai, India

2017 **Panasonic Ratti Chattr Scholar**, One of the 30 students in India; Received cash scholarship of \$2400

New Delhi, India

2015 **Aakash-YTSE Scholar**, AIR-3; Received scholarship of \$1000 with one year of free tuition

Bokaro, India

## Workshop & Speaker Sessions

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### Google Cloud Study Jams

IIT Dharwad, Dharwad

GOOGLE CLOUD PLATFORM ESSENTIALS

Aug. 2019

- Introduced 150+ attendees to the Google Cloud Platform's fundamental tools and services
- Hands-on session on virtual machine, Kubernetes Engine, Load balancers and Cloud shell

### Hello Android

IIT Dharwad, Dharwad

GETTING STARTED WITH ANDROID

March 2019

- Conducted a 2-day workshop on Getting Started with Android App Development participated by 60 students
- Discussed topics like OOP Concept, Activities Lifecycle, Fragments, Intent, etc.
- Participants built a simple calculator app at the end of workshop

## Position of Responsibility

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### PARSEC 2020

IIT Dharwad, India

OVERALL CO-ORDINATOR

September 2019 - Feb 2020

- Organized **PARSEC: A Paradigm Shift**, the first Annual TechFest of IIT Dharwad
- Led a team of 80 students and raised sponsorship worth 10 Lakhs

### IIT Dharwad

Dharwad, India

GENERAL SECRETARY TECHNICAL AFFAIRS

April 2019 - Ongoing

- Deals with all the technical activities and agreements
- Proposed various marketing and network solutions to increase tech exposure to students

### GitHub Education

India

GITHUB CAMPUS EXPERT

Jan 2019 - Ongoing

- Promoting open source culture in my local community with support from GitHub
- Mentoring students to get started with open source world

### Google Developers

India

DEVELOPER STUDENT CLUB LEAD (DSC LEAD)

Feb 2019 - Ongoing

- Conducts various tech and design sprint workshops
- Exposing students to the latest Google technologies and programs like Cloud Study Jams and Explore ML programs

### Open Student Society (OSS)

India

FOUNDER & CAMPUS LEAD

Feb 2019 - Ongoing

- Founded a new developer community to foster open source projects and events
- Impacted more than 2000 students with the events and workshops conducted