Sonu **Sourav**

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"Aut inveniam viam aut faciam"

Education

Indian Institute of Technology Dharwad (IIT Dharwad)   *Dharwad, India*

Junior Electrical Engineering Undergrad   *Expected 2021*

Work Experience

Texopanda   *Bangalore, India*

Android App Developer Lead   *July 2018 - Aug 2018*

- 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

TCS-IISc Bangalore   *Bangalore, India*

Software Development Engineer   *March 2018 - Jul 2018*

- 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.

Youth Empowerment Foundation   *Remote*

Android App Developer   *April 2018 - May 2018*

- 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

Projects

Kiwix-Android   *Bangalore*

Mentor: Seán Mac Gillicuddy   *Dec 2017 - Present*

- 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.

InstiGo   *IIT Dharwad, Dharwad*

Guide: Prof. Rajshekar K.   *March 2019*

- 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.

SmartWatch   *IISc Bangalore, Bangalore*

Guide: Prof. Prof. Amaresh Chakrabarty   *March 2019*

- 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

Other Projects

Idea becho   *In-Out 6.0 Hackathon, Bangalore*

Project Link   *March 2019*

- 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

BuzzerIit   *IIT Dharwad*

GITHUB LINK   *Aug 2018*

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

Skills

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

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

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

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