

Sonu Sourav

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

☎ (+91) 9916228725 | ✉ sonusouravdx001@gmail.com | 🏠 sonusourav.github.io/ | 📷 sonusourav | 📄 sonu-sourav-37b459149

“Aut inveniam viam aut faciam”

Education

Indian Institute of Technology Dharwad (IIT Dharwad)

ELECTRICAL ENGINEERING UNDERGRAD

Dharwad, India

Expected 2021

Chinmaya Vidyalaya

SENIOR SECONDARY EDUCATION (PCM)

Jharkhand, India

90 %

Work Experience

Matic Network

ANDROID DEVELOPER INTERN

Bangalore, India

June 2020 - Present

- Improved the **transaction workflow** of the Matic Wallet, a crypto-app which bridges the gap between scalability issues and user experience on Ethereum by reducing the overhead time by approximately **40%** using **MQTT protocol**.
- It adds another layer of abstraction on top of Ethereum network using an adapted version of **Plasma with PoS** based side chains to scale upto **65k transactions/second** on a single Matic chain
- Developed **Geronimo** hybrid app from scratch using **Flutter** framework which provides simple user experience to do transactions on Binance.

Texopanda

ANDROID APP DEVELOPER

Bangalore, India

July 2018 - Aug 2018

- Led a **team of 5 developers** to build an android app in alignment with latest **Android Material** Guidelines
- Added **Firebase** back-end support with API integration to improve the UX experience and cut down on development time

Tata Innovation Labs - IISc Bangalore

SOFTWARE DEVELOPMENT ENGINEER

Bangalore, India

March 2018 - Jul 2018

- Created an Android solution from scratch for a **Smart Wearable** device on top of **BP algorithm** that uses **PPG (Photoplethysmogram)** and **ECG (Electrocardiogram)** signals to measure heartbeat and blood-pressure

Projects

Matic-Wallet

MANAGER: **ANURAG ARJUN**

Bangalore

June 2020 - Present

- Developed a crypto-wallet to send, receive and manage **Ethereum-based ERC20 crypto-tokens** securely with intuitive design to simplify crypto transfers used by **10,000+ people**
- Improved the transaction flow which cut down the transaction overhead time by around **40%**

Kiwix-Android

MENTOR: **SEÁN MAC GILLICUDDY**

Bangalore

Dec 2017 - Present

- Converted around **60%** of Kiwix-android project to **Kotlin** and reduced the code size by around **20%**
- Improved the UI/UX of various features of the app including tabs and navigation.

InstiGo

FACULTY ADVISOR: **ROF. RAJSHEKAR K**

IIT Dharwad

March 2019

- Built an android app for the students and faculties that provide one stop solution for matters related to mess, academia and hostel
- Developed the app from scratch using **Node server** which included features like Resource Portal, Hostel Complaints, Mess Menu, etc.

Other Projects

4-DOF Robotic Arm with active Feedback

FACULTY ADVISOR: **DR. AMEER MULLA**

IIT Dharwad

March 2019

- Leveraged **Inverse Kinematics** concepts to build RRRR configuration 4-DoF arm with an **active feedback** mechanism for high precision control
- Used Encoder HT12E, RF Transmitter, and Microcontroller to anticipate the next move while in air using the feedback mechanism

Software Cache Prefetching Compiler Model

IIT Dharwad, Dharwad

FACULTY ADVISOR: **PROF. RAJSHEKAR K.**

March 2019

- Analysed the existing algorithms to understand their limitation and find their shortcomings
- Emulated the **ToyRISC processor**, researching strategies to increase the hit rate of the cache, by enhancing the hardware pre-fetcher.

Skills

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

Platforms Android Studio, Firebase, MongoDB, Visual Studio, 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.

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 networking 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