Sonu **Sourav**

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"Aut inveniam viam aut faciam"

Education

Indian Institute of Technology Dharwad (IIT Dharwad)	*Dharwad, India*
Electrical Engineering Undergrad	*Expected 2021*
Chinmaya Vidyalaya	*Jharkhand, India*
Senior Secondary Education (PCM)	*90 %*

Work Experience

Matic Network   *Bangalore, India*
Android Developer Intern   *June 2020 - Present*

- Worked on Matic Wallet app, a crypto- solution which aims to bridge the gap between scalability issues and user experience on Ethereum making it easier for users to interact with scalable DApps deployed on plasma chains and Ethereum.
- Converted the Hybrid app code to Native and released it on Google Playstore which is having more than 10,000 downloads.

Texopanda   *Bangalore, India*
Android App Developer   *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

Tata Innovation Labs - IISc Bangalore   *Bangalore, India*
Software Development Engineer   *March 2018 - Jul 2018*

- Created an Android solution from scratch 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

Projects

Matic-Wallet   *Bangalore*
Manager: **Anurag Arjun**   *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 failure rate by around 40%

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*
Faculty Advisor: **ROF. RAJSHEKAR K**   *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 and Feedback,etc.

Other Projects

4-DOF Robotic Arm with active Feedback   *IIT Dharwad*
Faculty Advisor: **Dr. Ameer Mulla**   *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
- Used ideas of branch predictors and eviction policies to optimise the algorithms to increase hit ratio and decrease memory latency and unnecessary fetches with less space complexity.

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 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