Rahul **Suresh**

Software engineer | BE (Major in CSE)

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SKILLS

- ❖ Programming languages: Python, C++, C, Java
- ❖ Web & Backend Technology: HTML, CSS, JavaScript, TypeScript, Node, PHP
- ❖ Databases and Query languages: MySQL, MongoDB

EDUCATION

- ❖ **BE in Computer Science and Engg.** - *PESIT South Campus, Bengaluru [2016 - 2020]*
  CGPA: 8.17/10 (As of 7th semester)

- ❖ **Higher Secondary education (PU)** - *CMR NPU College, Bengaluru [2014 - 2016]*
  Graduated with 92.67%

- ❖ **Primary and Secondary education (ICSE)** - *Ryan International School, Bengaluru [2014]*
  Graduated with 90.4%

PROJECTS

- ❖ **Browser based music sequencer** *[github/looper16]*
  Tech stack : HTML, CSS, Javascript, NodeJS, Express, MongoDB
  - A full stack application providing an interactive user interface to create music loops.
  - Uses a Node and Express server, along with a MongoDB database, to provide appropriate CRUD operations for user account management, authentication, loop preset saving and loading, etc.

- ❖ **DiaHCMS - A diabetes healthcare management system** *[github/DiaHCMS]*
  Tech stack : Python, Tkinter, Python-MySQL connector, MySQL
  - A full stack desktop app that helps a diabetic patient manage daily activities and track anomalies.
  - Uses a Python-Tkinter frontend connected to a MySQL database.

- ❖ **Other projects** *[github/rahuls98]*
  - SADIO (Secure audio)- A solution to minimize audio piracy [*World Music Hackathon* - 2nd runner up]
  - OpenGL and C++ based portal system rendered in 3D.

WORK EXPERIENCE / INTERNSHIPS

- ❖ **Software Intern** - *[Jan 2020 - Feb 2020]*
  RevOS Auto Tech, Bengaluru [revos.in]
  - Developed scalable and efficient algorithms for the task of inventory management.
  - Used Typescript and Express to develop API's for the same, extending the capabilities of the existing ERP system. Also used Postman to perform the testing and documentation of these API's.
  - Performed multiple backend tasks when required to; helping the team meet deadlines.

- ❖ **DSC Core member and Mentor** - *[Feb 2019 - Jan 2020]*
  Google Developer Student Clubs PESIT Chapter, Bengaluru [dsc-pesit.github.io]
  - DSC core member, involved in actively organizing workshops and guest lectures for student peers.
  - Workshops covered topics such as Python and Data preprocessing, Machine Learning, etc.

❖ **Product developer and Idea strategist** - *[Aug 2017 - Jan 2020]*
Vincere Solutions, Bengaluru [vincere-solutions.com]

- Involved in project KRIDA, a tool used for the diagnosis of Intellectual Disability in children.
- Proposed the idea for the same.
- Worked on data collection, full stack development, functionality testing.

RESEARCH

❖ **Facial emotion recognition: Children vs. Adults**
- Utilised concept of Facial Landmarks and Deep Learning to identify the essential facial features required for emotion recognition in both children and adults.
- Paper presented at the international ACN Conference 2019, CISA-ISTA Symposium, Springer library.

❖ **IoT enabled Hydroponics smart farm** *[ijsrst.com/IJSRST185309]*
- Conducted viability study of a self sustained IoT smart farm using Hydroponics and LED growth lights.
- Paper published in the International Journal of Scientific Research in Science and technology (2018).

ACCOMPLISHMENTS

- Placed 3rd amongst 1500 teams in the World Music Hackathon 2.0 (Hackerearth challenege 2020).
- Placed 1st in the IEEE Cloud Computing for Emerging Markets 2018 for the PoC titled 'Diagnosis of Intellectual Disability using Machine Learning'.
- Placed 2nd amongst 100 teams in the Ingenius Hackathon 2018.
- Placed 3rd and won Best Idea award in Kludge Hackathon 2018.
- Finalist in Kalpana Technical Exhibition (IEEE PESIT SC, WIE CHAPTER EVENT) 2018.

EXTRA CURRICULARS

- Core member of the inGenius 2019 Hackathon organising team.
- Conducted multiple workshops on Python, NumPy, Pandas, Javascript, etc.
- Participated in the Rajasthan Greenathon, an initiative by the Dept. of IT and Communication of Rajasthan, 2018 [Top 20]
- Core member of the TEDx CMR PU organising team.
- Volunteer for Reap Benefit NGO for 1 year.
- Part of the PESIT Music and Photography clubs.