Ritodhwaj Sen

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EXPERIENCE

- **Reliance Jio Infocomm Ltd**
  Software Development Engineer - Hyderabad, India

  – Co-designer and co-implementor of **JioHealthHub**, working under **Jio Platforms Limited - Jio Health**.

  – **JioHealthHub** is a digital health companion with **4.2 star ratings** and **over 1M downloads** on play store.

  – It has features like booking of medical tests, appointments with doctors, booking of Covid tests & vaccines, tracking of various health parameters, finding nearby hospitals, pharmacies and blood banks, etc.

  – Implemented unit tests for 3 microservices and achieved code coverage **above 90%** in each of them, ensuring smooth running of the microservices.

  – Designed a microservice for sending the vaccination data of the user to the database, which will further generate reminders for taking the 2nd dose.

  – Implemented write, delete and read APIs using **FastAPI**, for sleep data of the user coming from the health devices.

  – Currently, working on creating a **Data Warehouse** for storing vaccination center and user's vaccination data in **MSSqlDB**, for faster analytics.

  August, 2020 onwards

INTERNSHIP

- **CSIR - Central Scientific Instruments Organisation**
  Summer Trainee – Chandigarh, India

  – Co-designer and co-implementor of an **Indigenous Electronic Apex Locator** for calculating the length of the root canal during a root canal treatment.

  May to June, 2018

AWARDS & RECOGNITION

- **Product Design General Championship**

  – Led the **GOLD Winning Product Design Team** of Lala Lajpat Rai Hall of Residence.

  – Co-designed the product, **GYAT** for early detection of Parkinson's disease.

  Jan to March, 2019

SKILLS

- **Technologies**
  Languages - Python, Java, C, C++, MySQL.
  Softwares & Tools - Microsoft Visual Studio, Robo3T, Postman, Azure Data Studio, MongoDB, FastAPI, Docker, Kubernetes, Kafka, Git.
  Operating Systems - Windows, Macintosh, Linux.

- **Programming Practices**
  Object Oriented Programming, Microservices, Unit Testing, Exception Handling, JSON.

- **Project Management**
  Agile Scrum Framework, Sprints, Microsoft DevOps.

EDUCATION

- **M.Tech - Instrumentation & Signal Processing**
  Indian Institute of Technology, Kharagpur
  2020   *7.45 CGPA*

- **B.Tech - Instrumentation Engineering**
  Indian Institute of Technology, Kharagpur
  2019   *6.64 CGPA*

- **Senior Secondary Education**
  Jawahar Vidya Mandir Shyamali, Ranchi (CBSE)
  2014   *85%*

- **Secondary Education**
  DAV Public School, Deoghar (CBSE)
  2012   *10.0 CGPA*

PROJECTS

- **Masters Thesis Dissertation** - *July, 2019 to April, 2020*
  Current Sensing in Hysteretic Control DC - DC Buck Converter for Power Stage Segmentation

- **Bachelors Thesis Dissertation** - *July, 2018 to April, 2019*
  A Linear Battery Charger for Li-Ion Batteries

HOBBIES & INTERESTS

- Cooking, Playing Guitar, Listening to music, Swimming, Photography, and Watching sports (mainly Cricket, Lawn Tennis, Badminton and Kabaddi).