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Asijit Paul

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Personal Details

Date of Birth	18-02-1999
Gender	Male
Languages Known	English, Bengali and Hindi

Projects

Health care system using machine learning, University of Engineering Management Kolkata **July 2020 — April 2021**

- Online Health Monitoring and Emergency Service Remote health monitoring can provide useful physiological information in the home. This monitoring is useful for elderly or chronically ill patients who would like to avoid a long hospital stay. Wireless sensors are used to collect and transmit signals of interest and a processor is programmed to receive and automatically analyse the sensor signals. In this project, you are to choose appropriate sensors according to what you would like to detect and design algorithms to realize your detection. Examples are the detection of a fall, monitoring cardiac signals.
- A simple cloud server where hosted with a database for all the vital data to be accessed remotely whenever required.
- Technologies that were used in the projects are: PHP, HTML, ESP32 ESP-32S Development Board (ESP-WROOM-32), MAX30102 I2C Pulse Oximeter Sensor, DHT11 Digital Humidity Temperature Sensor, MySQL.
- Recommendations on Future Work:
    A) Physiological data collection
        1. Home Ultrasound
        2. Brain signal monitoring
    B) Problems associated with having data online.
        1. Tackle Distributed denial of service.
        2 Data privacy/security especially of medical systems.

Online Code Judge CMS, Self-initiative **February 2019 — Present**

- Online Code Judge CMS, or Contest Management System, is a distributed system for running and (to some extent) organizing a programming contest.
- The system can compile and execute code, and test code with pre-constructed data. Submitted code may be run with restrictions, including time limit, memory limit, security restriction, and so on. The output of the code will be captured by the system, and compared with the standard output. The system will then return the result.
- Technologies that were used in the projects are: PHP, Java, MySQL.
- Used a Linux system for compiler server. Programming languages that are currently supported - Python, Python3, pypy, Ruby, Java, CPP, C.
- Admin portal is available for hosting contest.
- User profile with performance graph is also implemented. Users can interact with each other by sending friend request and sending direct messages.
- Discussion forum is also implemented where user can add comments. Add voting system in user comments to make it more interactive.
- Project Link: Online Code Judge CMS

Work Experience

Data Analyst **October 2020 — April 2021**
MapUp.Ai India

- Developing automated tools, set up and improve data pipeline.
- Working with mapping services such as Google maps, HERE maps, OSM, TomTom, etc.
- Use GIS knowledge to gather and update mapping data.
- Python automation and web scrapping.
- API repository in PHP and API documentation using YAML
- API testing with postman.

Associate (Risk Assurance) **May 2021 — Present**
PwC SDC Kolkata India

- IT General Controls Testing.
- Code review, user access appropriateness testing.
- Data cleaning.

Education

Bachelor of Technology, Computer Science Engineering **July 2017 — May 2021**
University of Engineering and Management Kolkata
GPA: 8.48/10.00

ISC, Science (PCM-Computer) **2017**
St. Thomas' Church School Howrah
Aggregate (%): 71.16

ICSE, General **2015**
St. Thomas' Church School Howrah
Aggregate (%): 84.66

Technical Skills

Programming/Scripting	Python, PHP
OS	Apple mac OS, Microsoft Windows, Linux Operating System
Some Other Skills	Penetration Testing, Web Application Testing, Kali Linux, QGIS, Burp Suite, Postman,

Subjects of Interest

- Data Structures and Algorithms
- Database Management
- Operating Systems

Publications

Molecular Insight into the Effects of Enhanced Hydrophobicity on Amyloid-like Aggregation
Authors: Srijita Paul, Komal Kumari, and Sandip Paul*
J. Phys. Chem. B, 2020, **124**, 10048-10061.
Please see the acknowledgement.
Publication Link: doi.org/10.1021/acs.jpcb.0c06000