Rajdeep Ghosh

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EDUCATION

Calcutta University   Kolkata, West Bengal
Master of Technology in Computer Science and Engineering   *August. 2022 – Present*
  CGPA: 8.66

Tezpur University   Tezpur, Assam
Bachelor of Technology in Computer Science and Engineering   *July. 2018 – July. 2022*
  CGPA: 8.44

Maharishi Vidya Mandir   Guwahati, Assam
Higher Secondary XII   *June. 2016 – April 2018*
  Percentage: 91.6%

Maharishi Vidya Mandir   Guwahati, Assam
High School X   *April. 2014 – April 2016*
  CGPA: 9.6

WORK EXPERIENCE

Research Intern in Cloud and Fog Computing   May 2021 – July 2021
CSIR-Central Mechanical Engineering Research Institute (CMERI)   *Durgapur, West Bengal, India*
- Worked in the specified field of Application Scheduling in Fog and Cloud.
- Studied and implemented my task on Context Aware Decision Making in IoT Fog Cloud based Infrastructure
- Under: Prof. Dr. Rajesh P Barnwal

Research Intern in Cloud Computing   May 2020 – July 2020
IIIT Guwahati   *Guwahati, Assam*
- Worked in the specified field of Scheduling in Fog. Studied application placement in Fog and implemented in simulated environment
- Under: Dr. Monojit Ghosh
- Collaborator : Gautam Baishya

PUBLICATIONS

RISP-SDN: Reputation Aware IoMT Service Provisioning Using SDN in Edge/Fog-Based Systems

Ray, K., Medhi, N., Ghosh, R., Das, P., Deka, V.K., Prof. Misra, S. (2023). RISP-SDN: Reputation Aware IoMT Service Provisioning Using SDN in Edge/Fog-Based System. Published in *IEEE Global Communications Conference (GLOBECOMM)* 2023.

Performances of M2M Protocols in Internet of Medical Things

Das, K., Dutta,T.L., Ray, K., Ghosh, R., Goswami, D., Dey, A., Phukan, P., Das, P., Deka, V.K., Medhi, N. (2023). Performances of M2M Protocols in Internet of Medical Things. Published in *IEEE WS16 ICC'2023 Workshop - SIGNIS* 2023.

Resource Aware Fog Based Remote Health Monitoring System

Barbhuiya, D.H., Dey, A., Ghosh, R., Das, K., Ray, K., Medhi, N. (2022). Resource Aware Fog Based Remote Health Monitoring System. Published in *2022 IEEE Infocom Workshops (A4E WORKSHOPS)*.

Deep Learning Based Approach For Prediction Of Glass Transaction Temperature In Polymers

Goswami, S., Ghosh, R., Neog, A., Das, B. (2021). Deep Learning Based Approach For Prediction Of Glass Transaction Temperature In Polymers. Published in *International Conference on Advances in Material Science, Communication and Microelectronics (ICAMCM) 2021*.

Projects

Serverless Computing | *Kubernetes, OpenFaaS, Docker* August 2023 – Ongoing
- Developed a complete Serverless Test Bed for carrying out various FaaS problems using OpenFaaS and Kubernetes in bare metal system as well as in a virtualized system.
- Working on some DDoS attacks to which Serverless Setups can be prone.
- Mentored by : Prof. Nabendu Chaki
- Collaborator: D. Mitra

Ensuring QoS in IoMT Using SDN | *Python, Cassandra, Shell Script, Java* March 2021 – July 2023
- Working on a MEITY FUNDED Project named "Ensuring QoS in Internet of Medical Things Using SDN".
- Configuring the FOG and Cloud Environment for the given project.
- In this project, a group, including me, developed an IoMT setup with various sensors and, using them, developed a remote patient monitoring system. We propose a bandwidth-guaranteeing and resource-efficient model for the IoMT network using OpenFlow protocol and a simple fog cloud network to decrease the latency of the networking system. The main design consideration of the model is to classify the traffic into different classes and prioritize the classes according to the predefined QoS classes segregated in the FOG System.
- Modeled a resource-aware-based scheduling for incoming medical data packets in the fog nodes.
- Mentored by : Dr. Nabajyoti Medhi
- Collaborator: K. Ray, D.H.Barbhuiya, A. Dey, K.Das, P. Das, T.L.Dutta

EduVantu | *PHP, SQL* March 2021 – July 2021
- Developed a Online Virtual Classroom System with most features as that of Google Classroom.
- Developed a full-stack web application using PHP as the as the backend along with Bootstrap Framework for the frontend. Am using SQL for the database. Implementing some of basic features as per requirement. To be precise it can be framed as Google Classroom clone with some basic extra features.
- Link : github.com/EduVantu

Satsang E-Book Reader | *React Native,PHP, MySQL* February 2021 – August 2021
- Developed a full-stack mobile application using React Native as the frontend and PHP API as the backend along.
- For e-books, bookmarking, highlighting , note-keeping tabs, changing the font size of the text, dark/white theme of the background, eye care mode and also hyperlinking the chapters of the book from the content page to its respective pages (one can easily reach to the topic he/she wants) may also be introduced
- Link : playstore/Satsang E-Book Reader
- Mentored by : Dr. Nabajyoti Medhi
- Collaborator : Adittya Dey

Organizations

Training and Placement Cell Tezpur University, Tezpur
CSE Student Co-Ordinator *August 2021 – May 2022*

Institutes Innovation Council , MHRD Initiative Tezpur University, Tezpur
Social Media Student Coordinator *September. 2019 – April. 2022*

IEEE Tezpur University Student Chapter Tezpur University, Tezpur
Vice Chair *August. 2018 – January. 2022*

NSS Tezpur University Tezpur University, Tezpur
Active Member *August 2018 – July 2020*

Achievements

GATE Qualified 2023 March 2023
Issued by IIT Kanpur *Kanpur, Uttar Pradesh, India*

Best Under Graduate 2022 (Gold Medalist) December 2022
Associated with Tezpur University *Tezpur, Assam, India*

Technical Skills

Languages: Python, PHP, C, Java, JavaScript, HTML/CSS
Frameworks: React, Next JS, React Native, Node.js
Developer Tools: Git, VS Code, Visual Studio, Eclipse, Mininet

Interests

- IoT and Cloud Computing

- Web Development

- App Development