Sankha Das

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EDUCATION

Birla Institute of Technology and Science (BITS) Pilani, Rajasthan, India *Aug 2019 - Present*
Bachelors of Engineering in Computer Science GPA: 9.25/10.0
Relevant Coursework: Data Structures and Algorithms, Database Systems, Object Oriented Programming, Operating Systems, Computer Networks, Deep Learning, Artificial Intelligence, Graph Theory

TECHNICAL SKILLS

Programming languages: Python, JavaScript, Java, C++, C, Solidity
Technologies: Django, Vue.js, Node.js, Socket.io, BeautifulSoup, Vertx, Git, LaTeX

EXPERIENCE

Summer Intern - Goldman Sachs, Bengaluru *June 2022 - Aug 2022*
Notification System Enhancements Bengaluru, India
- Worked on the **enhancement of client-side notifications** for the **firm's loans handling portal** used by **500+ employees**
- Developed a **real-time asynchronous notification system** based on a push-based **publisher-subscriber model**.
- ***Tech Stack*** : Java, Angular, MongoDB, Vertx

Project Mentor - Google Summer of Code 2022 *Jun 2022 - Present*
Project AnnotateMe under National Resource for Network Biology (NRNB)
- **Mentoring a student** under the Google Summer of Code 2022 programme in developing the project "AnnotateMe".
- The project aims at building a **web-application to annotate components** in **SBML reports** generated using SBML4Humans.
- ***Tech Stack*** : Python, Vue.js, SBML

Student Developer - Google Summer of Code 2021 *Jun 2021 - Aug 2021*
Project SBML4Humans under National Resource for Network Biology (NRNB)
- Developed a **web application** for generating **interactive and human-friendly reports** for **SBML model files**
- The application parses small to large-scale **SBML model files of sizes upto 250MB** and converts them into **discrete and easily navigable components** with **search and filtering features**.
- ***Tech Stack***: Python, Vue.js, SBML

Robotic Desktop Automation Intern - Happiest Minds Technologies, India *Jun 2021 - Jul 2021*
Automated Meeting Scheduler Bengaluru, India
- Developed an **Automated Meeting Scheduler** to schedule **meetings based on calendar availability** for teams of **upto 100 members** size, **eliminating the need to mail team members** to check for availability
- ***Tech Stack*** : Microsoft PowerAutomate, Python, Django REST Framework

RELEVANT PROJECTS

FutureHealth - Distributed Health Record Management System *Jul 2021 - Sep 2021*
Supervised by Prof. Amit Dua, BITS Pilani
- Developed an **anytime-anywhere access system** to facilitate **authenticated exchange of medical records** between hospitals
- Ensured **privacy-preserving access to patients' health records across** hospitals and doctors using **proxy re-encryption**
- **Won the Community Choice Award** at the Solana Building out Loud Blockchain Hackathon 2021
- ***Tech Stack*** : Python, Vue.js, Rust

Post-Vaccination COVID-19 Data Analysis: Privacy and Ethics *Apr 2021 - Aug 2021*
Funded by IEEE Standards Education Research Grant
- Developed a **blockchain-based analysis** and **verification system** for **COVID-19 vaccination** registrations and statistics
- Provides a **secure** and **privacy-first blockchain system** to track COVID-19 vaccinations at govt. health centres
- ***Tech Stack*** : Python, JavaScript, Solidity (Ethereum)

PUBLICATIONS

GIDS: Anomaly Detection Using Generative Adversarial Networks *Publication date: Feb 10, 2021*
Authored by R. Macwan, S. Das, and M.L. Das Journal name: Springer Nature

POSITIONS OF RESPONSIBILITY

Secretary (Head) - Coding Club BITS Pilani: *May 2021 - May 2022*
Backend Lead - Google Developer Students Club BITS Pilani : *Feb 2021 - Jul 2021*

AWARDS AND ACHIEVEMENTS

DAAD-WISE Research Scholarship - Awarded by German Academic Exchange Service (DAAD) *Mar 2022*
MITACS Globalink Research Scholarship - Awarded by MITACS, Canada *Dec 2021*
IEEE Standards Education Research Grant - Awarded by IEEE, USA *Apr 2021*
Institute Merit Scholarship - Awarded to the top 2% of the university batch for academic excellence *Mar 2020 - Present*
Aditya Birla Scholarship - Awarded to only 15 engineering students all over India each year *Sep 2019 - Present*
National Talent Search Examination (NTSE) *Aug 2017 - May 2019*