KAUSTAV SARKAR

Ph: +1-(631)-202-9051   Email: ksarkar@cs.stonybrook.edu
http://thekaustavsarkar.com/
https://www.linkedin.com/in/kaustav-sarkar-sbu/
https://github.com/KaustavSBU

EDUCATION

Stony Brook University, New York, U.S https://www.stonybrook.edu/   **Jan 2019-Present**
Master of Science in Computer Science
<u>Courses Completed</u>: Theory of Database Systems, Operation Systems, Advanced Topics in Computer Science (Topic: Cryptography), Analysis of Algorithms.

West Bengal University of Technology, Kolkata, West Bengal, India http://www.wbut.ac.in/   **Aug 2012-Jul 2016**
Bachelor of Technology in Information Technology

<u>Core Courses</u>: Algorithm and Data Structures, Database Management, Operation System, Cyber Law and Security Policy, Advanced Computer Architecture, Computer Networking, Software Engineering, OOP and UML, Compiler Design, Internet Technology.

WORK EXPERIENCE

Tata Consultancy Services (TCS) Ltd., Kolkata, India https://www.tcs.com   **Jul 2016-Dec 2018**
Designation: Systems Engineer

***Focus*:** Desktop Application Development in JavaFX, Spring Framework and Apache iBatis, Database Management in Sybase Adaptive Server Enterprise and SQLAnywhere.

Additional: Ranked 506 in **TCS CodeVita**, an international Programming Competition organized by TCS. Coded using C.

Awarded "**On the Spot**" and "**Star of the Quarter**" honors for "**Outstanding Contribution to the Organization**" by TCS

Ministry of Indian Railways, Govt. of India http://www.indianrail.gov.in   **Jun 2015-Jul 2015**
Designation: Summer Intern

Focus: Web Application Development of Payroll Management System, commonly known as Integrated Payroll and Accounting System (IPAS), using PHP and MySQL.

PROJECTS

Online Social Welfare
- **Customer to Customer (C2C) Web Application**
- Serves as a bridge between the donors and the
- welfare organizations that help the needy
- *UI: React JS*
- *Back End Scripting: Java Server Pages (JSP)*
- *Database: Oracle 11g*
- Awarded "**Best Idea**" at *West Bengal Engineering Innovation Conference, Science City Auditorium, Kolkata, India*

NYSE Stock Analysis
- This project uses the Map Reduce programming model perform various analysis of different stocks of the New York Stock Exchange.
- *Uses Hadoop, and takes as input, an exported CSV file containing all the data.*
- *The program takes 6 positional arguments, namely, start and end dates of our interval of interest, aggregation operator on the data obtained for the interval, name of the value field we want to aggregate, the name of the input file in HDFS and the HDFS path for the output.*
- *The output has the aggregate value for each stock (i.e. each ticker).*

Stackable File System
- This project's aim is to create a file system that automatically creates backup versions of files, and also allows us to view versions as well as recover them.
- *This Backup File System (bkpfs) will have to handle several tasks via policies that has been designed, appropriate justifications has been provided for the design, implemented, and tested: backup, version access, and retention policies.*

Encryption Decryption Linux System Call
- Encrypting files is very useful and important nowadays, but many OSs do not support this feature natively (yet).
- *This project is to create a Linux kernel module in vanilla 4.20 Linux that, when loaded into Linux, will support a new system call that can takes an input file, encrypts decrypts, or simply copies it, and then produce an output file.*

Auction Management System
- **E-Commerce Portal**
- Used *PHP* and *MySQL*
- Includes *Social Login, Proxy Bidding, Reverse Auction,etc.*
- Implemented *Lightbox, Facets* and *Grid/List Views*
- **Highlighted** in **Keynote Address** at *Techno India Engineering And Technology Conference at Techno India, Kolkata, India*

Bookstore Management System
- **Intern Project at Ardent Computech Pvt. Ltd**.
- Includes **Inventory Management** and **Sales**
- *Desktop Application using Java Swing and AWT*
- *Database: SQL Anywhere*

SKILL SET/TRAININGS

C	Hadoop	CSS3	Sybase Adaptive Server Enterprise	IBM DB2
C++	PHP	Android	SQL Anywhere	iBatis
Core Java	Hibernate ORM	Python	Read Bean PHP ORM	Bootstrap
HTML5	PL/SQL	Java FX	Amazon EMR	Javascript

All the above are Certified Trainings that are acquired from Tata Consultancy Services (TCS), Coursera and Udemy course material. I have worked on all of the technologies, mentioned above, during my grad, undergrad and work experience.