

# Kaustav

Sarkar



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<https://github.com/KaustavSBU>

## Education

Master of Science ,  
Computer Science  
Stony Brook University, New York, U.S  
2019-Present

Bachelor of Technology ,  
Information Technology  
West Bengal University of Technology,  
West Bengal, India  
2012-2016

## Skills

Languages: C, Java, Python, SQL,  
PL/SQL

WebDev : HTML5, CSS3, JS, JQuery,  
PHP, Bootstrap

ORM : Hibernate, Red Bean PHP, iBatis

Databases : Sybase ASE, MySQL, SQL  
Anywhere, IBM DB2, Oracle

Big Data : Hadoop, Amazon Elastic  
Map Reduce

Platform and Framework : Eclipse,  
IntelliJ, Pycharm, Spring MVC

Other Tools: MS Office, Git, Apache  
SVN, Maven, Jira

## Extra-Curricular

- Part of English and Science Tutoring Team for underprivileged children. Program headed by Make A Difference (MAD), non-governmental organization.
- Actively took part in numerous marathons, including TCS Kolkata Marathon and Charity Events, like TCS World Ashwini Charitable Trust.

## Work Experience and Internships

- Jul'16-Dec'18 Tata Consultancy Services (TCS) Ltd., Kolkata Systems Engineer  
Desktop Application Development in *JavaFX*, *Spring Framework* and *Apache iBatis*, Database Management in *SAP Sybase Adaptive Server Enterprise* and *SQL Anywhere*.  
*Experienced in managing multi-clustered server environments, that is capable of handling 24k+ clients simultaneously, which is also highest in the world, eclipsing the likes of Walmart US and Morrisons UK.*
- Jun-July'15 Ministry of Indian Railways, Govt. of India Summer Intern  
Web Application Development of *Payroll Management System*, commonly known as *Integrated Payroll and Accounting System (IPAS)*, using PHP and MySQL.

## Projects

- Apr-May'19 NYSE Stock Analysis  
- This project uses the Map Reduce programming model to 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, 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).
- Mar-Apr'19 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.
- Feb-Mar'19 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 produces an output file.
- Mar-Apr'15 Auction Management System  
- E-Commerce Portal  
- Used PHP and MySQL  
- Includes Social Login, Proxy Bidding, Reverse Auction  
- Implemented Lightbox, Facets and Grid/List Views

## Courses

- Stony Brook University Theory of Database Systems by Prof. Fusheng Wang, Operating Systems by Prof. Erez Zadok, Advanced Topics in Computer Science (Topic: Cryptography) by Prof. Omkant Pandey, Analysis of Algorithms by Prof. Rezaul Chowdhury, Data Science Fundamentals by Prof. Steven Skiena, Human Computer Interaction by Prof. Xiaojun Bi
- WBUT Algorithm and Data Structures, Database Management, Operating Systems, Cyber Law and Security Policy, Advanced Computer Architecture, Computer Networking, Software Engineering, OOP & UML, Compiler Design, Internet Technology